U. S. DEPARTMENT OF LABOR PERIODICAL BUREAU OF LABOR STATISTICS

ERA ETHELBERT STEWART, Commissioner

MONTHLY

LABOR REVIEW

Vol. XVIII, No. 6

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June, 1924

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> WASHINGTON GOVERNMENT PRINTING OFFICE

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MONTHLY LABOR REVIEW

VOL. XVIII, NO. 6

WASHINGTON

Conference of Paper Box-board Manufacturers on Shorter Working Hours, Washington, D. C., May 2, 1924

N MAY 2, 1924, a conference of paper box-board manufacturers was held in Washington, D. C., at which delegates from over 60 companies were in attendance.

The opening address by the United States Secretary of Labor, which is given in full below, explains the purpose of this important

It gives me great pleasure to welcome the representatives of the paper boxboard industry of the United States. It is a great honor to have been instrumental in calling you together in this city at this time for the purpose of joining in council to devise ways and means for the elimination of labor conditions that,

in some of the mills, have survived from an outgrown past.

Before proceeding with what I have to say I wish to read to you a letter from the President of the United States. No man is in closer touch or understands better the real sentiment and feelings of the American people along these lines than President Coolidge. His letter, though addressed to me, is really to and for you, and should be considered by us here to-day as being a message from the people of the United States.

"THE WHITE HOUSE, "Washington, April 25, 1924.

"MY DEAR MR. SECRETARY:

"It is a satisfaction to know that you are assembling the manufacturers of box board in Washington to confer upon a method for eliminating Sunday work and the long workdays in this important industry.

"I trust that you may be able to devise a method so that in this industry there may be no work upon Sunday that is not distinctly of an emergency nature. I also hope that you may find a method to abolish the alternating week of 11-hour and 13-hour shifts. There are difficulties involved, of course, but I believe that in the long run it will be found more satisfactory to have the usual hours

which now prevail in industry, and the usual cessation of work on Sunday. "I want to thank you for the interest that you have taken in this matter, and wish you would extend my best wishes to the conference for its every possible

success. "Very truly yours,

"(Signed) CALVIN COOLIDGE.

"Hon. James J. Davis, Secretary of Labor, Washington, D. C."

In this letter the President in a very few lines states the purpose of this conference and the motive which actuated the Department of Labor in issuing the call. As I take it your mission here is to devise some method by which the 11 and 13 hour day and the 7-day week can be abolished throughout the industry; and this seems to be a good place to call your attention to a danger. I am firmly convinced that the American public is determined to end unnecessary Sunday work, that it is determined to end the 11, 12, and 13 hour day, and that unless the industries in which these labor conditions exist can by mutual agreement within the industries end this situation, we will soon be confronted with the same situation that we are facing in the case of child labor. When all other means of ending child labor had failed, there arose a demand for a constitutional amendment which would abolish this inhumane institution once and for all.

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I think you will agree with me that it would be very much better if all of our industries could be brought into tune with the present-day public opinion through peaceful conferences rather than have such regulations forced upon In times of war or industry by legislation and constitutional amendments. other great emergency when the economic need is such that for a short period of time our machinery of production as a nation must be operated for an unusually long day, we are brought face to face with the fact that our own laws enacted to force humanitarian conditions in times of peace prevent us from taking advantage of our productive capacity. Existing antitrust legislation, which grew out of the fear that trusts and combinations would own the Government, compelled the Government to take over the railroad systems of the country during the war for the purpose of effecting combinations for efficiency in railroad administration, because these combinations would have been illegal if they had been effected under private ownership. Thus we become Frankensteins in our determination to end an economic or social situation the results of which we fear.

The paper box-board industry, which is to-day overdeveloped by 25 per cent, can not exist with one-half operating productively 3 tours per day 5 days a week with a clean-up on the sixth day and closed on Sunday, and the other half operating 11 and 13 hour tours 6 days a week and making the clean-up, which is an essential part of the industry, on Sunday, thus making 7 days' work.

There is nothing in existing law which prevents any association of employers from agreeing to cut out Sunday work in their industry, nor to prevent them from reducing the hours of labor from 11 and 13 per day or tour to the prevalent 8-hour shift. If this accomplishes the object sought, then no law is violated, and if there is anything in existing law which would prevent the absorption of the 25 per cent overdevelopment, if that be necessary to humanize the industry, then such law ought to be amended or repealed.

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then such law ought to be amended or repealed.

In this connection your attention is called to a recent decision of the United
States Supreme Court in the case of the National Association of Window Glass
Manufacturers et al v. United States. This decision was rendered December

10, 1923. In it the court says:

"To work undermanned costs the same in fuel and overhead expenses as to work fully manned, and therefore means a serious loss. On the other hand the men are less well off with the uncertainties that such a situation brings. The purpose of the arrangement is to secure employment for all the men during the whole of the two seasons, thus to give all the labor available to the factories, and to divide it equally among them."

Continuing it says,
"It is enough that we see no combination in unreasonable restraint of trade in the arrangements."

The situation which the Supreme Court was reviewing in the window-glass industry differs from that in the box-board industry only in that the latter has more fitful periods of shutdowns.

The fact that a very appreciable percentage of the establishments in the industry are operating without Sunday work and have abolished the long day is ample-evidence that the plan is practical and that it can be done. If only four or five had succeeded in carrying out the more humane system it would be difficult for the industry to prove that Sunday work and long hours were necessary. Some very practical letters have been received in reply to my call for this conference, and when you have organized, much of this material can be turned over to your secretary for your consideration.

I realize that because of the needs in the industry for large quantities of water the plants have been located in small and sometimes remote places, that they were built in a day and time when most of our people worked long hours, and when the old myth, "Man works from sun to sun and woman's work is never done," was accepted as a sort of an axiom. Not only that, but the very remoteness of these mills made their managers jealous and suspicious of one another on general principles.

But times have changed. More and more as our social system becomes more complex do we realize that no man liveth unto himself, and from a social point of view no man can be permitted to live unto himself. In some of the letters received—I am glad to say that there are not more than one or two of them—the statement is made that the men working 11 and 13 hour tours and 7 days a week are entirely contented and happy and would resist any attempt to shorten the hours or cut out Sunday work. About 99.9 per cent of the people of the United States are wondering what kind of an American citizen is being

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developed out of the man who is happy and contented with an 11 or 13 hour workday 7 days a week. We wonder what sort of a member of society he makes, what kind of a husband, a father, he has time to be, and whether he has time to care.

We hear a similar plea in regard to child labor—that the parents of these children want them to work, that they are better off in the mills than they are in the street—but the people are demanding a constitutional amendment to prevent these children from being so happy and so well off. There are even people who are suggesting that the father or mother who prefers to have his or her child in the mill rather than in school or at play ought to be fined or sent in its and sooner or later such an amendment to the constitution will pass.

to jail; and sooner or later such an amendment to the constitution will pass. There is a growing element in our population which would rather do without paper box-board containers than see developed in this country a class of men who are happy and contented working 11 and 13 hours a day 7 days a week. Emerson calls our attention in one of his essays to "gold ingots that cost too much." I refer to this again simply to impress upon you the social and humanitarian side of this issue; the industrial and economic remedy you must devise for yourselves in friendly conference. It may be impossible to bring about these needed reforms throughout the entire industry at once, though it would seem that the plans already in operation in some of the mills could very quickly be installed in all.

I leave the meeting with you. When you have organized, some valuable statements and opinions which have been received by the department will be made accessible to your secretary or your committees. Let your consciences dominate you, prompt and inspire you with the social duty of doing this thing, and I have no doubt you will find it comparatively easy for your intellects to

devise ways and means.

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The Secretary of Labor appointed the Solicitor of the United States Department of Labor as chairman of the conference, and Mr. John R. Mauff, general manager of the Boxboard Association,

Chicago, was elected secretary.

At the suggestion of the United States Commissioner of Labor Statistics, a statement which he had received from the president of one of the largest paper box-board companies in the country was read in order to bring the situation in the industry before the conference. This statement brought out the fact that the paper industry is one of the oldest in the United States. While its growth has entailed invention, expensive competition, machinery, immense production, and continued technical research, the industry still clings to hoary traditions and practices which are the cause of its present economic difficulties.

As suitable watercourses are essential to the successful running of paper and board mills, these establishments are almost always located in rural places which are sometimes quite isolated, and this isolation has retarded the development of general cordial relations among the manufacturers in the industry. At the same time the enormous demand for all varieties of paper has stimulated invention and investment and resulted in a planless expansion which was especially pronounced during the war. With a surplus of paper board in process of manufacture and the market crammed with product, the industry in many cases has been operating its machinery 6 days per week, 24 hours per day, and using the seventh day for repairs and preparations for another round of 24-hour days from Monday morning until Saturday night.

According to the same statement the 2 tours of 11 and 13 hours on which many paper-board mills are still being run "are indefensible on any ground, civil, moral, or economic." The practice "is a survival of the submissive past and a reproach to the industry." In the last few years some mills have adopted the three-tour system of 8 hours each, other mills have decided on five days' operation, with

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clean-up, repairs, and machine adjustments on the sixth day, Saturday, and the whole of Sunday for rest. A group of 17 or 18 mills representing approximately one-half of the total production in the United States agreed on the latter plan, the immediate results of which were increased efficiency and a higher-grade and more contented labor force. The members of the group found, however, that they were not in a position to compete with the mills running on two tours for six consecutive days and using Sunday to get ready for another six days of continuous operation. So the new plan was abandoned by all except "a few mills less vulnerable to reactionary competition," which have found the new scheme beneficial and satisfactory.

It was also pointed out in the statement that a proposal to the industry as a whole to adopt the three-tour system and abolish Sunday work creates apprehension in the minds of individual employers as to whether their fellow manufacturers can be depended upon to live up to an agreement of this kind. This distrust, together with the long-established habit of operation under the ancient order, has paralyzed progress.

As to the allegation that the proposal for the establishment of three tours and the abolition of Sunday work was in the interest of curtailed production, the following statement was made:

The advocates of this plan would not venture here with a commercial objective in the garb of humanity. They make no secret of the fact that a reasonable reduction in an overproduced industry would benefit all concerned. The record of 20 years shows that, notwithstanding the ever-increasing demand for paper board, new mills or expanded mills have been disproportionate, with the result that our producing capacity is fully 20 per cent greater than the demand. Therefore, if the plan for revised working hours results in better balancing supply and demand and a betterment in working conditions, serving equally the employer and employee, there can be no objection. It happens that they go hand in hand. Our ideas and recommendations have been indorsed by the Department of Labor, and more than a year ago, when the movement was started, President Harding, with cordial emphasis, approved what had been undertaken and hoped for its consummation. Because of this and at our request, the Secretary of Labor has called this meeting in Washington to consider what is here proposed, and, if possible, have it adopted by every paper-board mill in the country. Later, it is hoped that all sheet-paper mills will accept the paper-board industry's example and particiapte in its aims for industrial betterment.

Elimination of Sunday Work

AFTER the reading of the statement summarized above, a resolution was introduced which was amended to read as follows:

It is the sense of this meeting that we change the working hours of the industry to five days of operation consisting of 120 hours, the sixth day reserved for the changes and repairs, and the entire elimination of all Sunday work.

In the discussion that followed, certain companies expressed their attitude on this resolution.

Mr. W. H. Richardson, vice president of The Richardson Co., Lockland, Ohio, operating on two tours, was entirely willing to inaugurate the new system and expressed the hope that the other mills would see the light.

Mr. S. B. Fleming, president of the Fort Wayne Corrugated Paper Co., declared his willingness to cut down daily hours, a procedure which he estimated would cost him \$150,000, which he proposed to recover by raising prices; he stood firmly, however, against a 5-day week unless there was some way of enforcing it. It was explained to him that a committee was to be elected to follow up any agree-

ment reached and report back to the United States Department of

Labor as to "who are keeping faith."

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Criticising the resolution as tending to curtail production, Mr. William W. Walker, managing director of the MacAndrews & Forbes Co., Camden, N. J., moved that the resolution be amended to read: It is the sense of the meeting that the box-board industry mills curtail their hours of operation to a maximum of 6 full days a week, including washing up and repair work, and total elimination of Sunday work.

Mr. Walker's reason for making the amendment was that his company was able to do its repair work in from 4 to 5 hours and start up again and he did not wish to lose the "advantage of efficiency" which his mill had. He also said that as regards expense of operation in the mill his company was willing to go as far as any one at the conference.

Mr. W. J. Alford, of the Continental Paper Co., Bogota, N. J., suggested that if Mr. Walker's company adopted the five-day week it would probably be able to do its cleaning up in even a shorter time than under its present system of operation and would therefore

still have its advantage of efficiency.

As pertinent to the resolution under discussion, the United States Commissioner of Labor Statistics presented the following production figures of an identical mill under three different plans of operation.

Daily average tonnage

Six days, two tours, Sunday clean-up (May 1, 1919-April 30, 1920) 181. 4 Six days, three tours, Sunday clean-up (May 1, 1920-December 31, 1920) 183. 1 Five days, three tours, no Sunday work (January 1, 1923-December 31, 1923) 218. 4

He called attention to the increase of nearly 40 tons per day following the abolition of Sunday work, which seemed to show that the elimination of such work made for greater efficiency among the men. Another mill was obliged to increase its labor force 18 per cent on changing from two to three tours, the added labor cost being from 73 to possibly 78 cents per ton. He held that if the first-mentioned mill, which had increased its product nearly 40 tons a day after giving up Sunday work, had raised its labor cost 78 cents a day, the extra tonnage over which to spread the overhead expense would more than likely take care of the additional labor cost.

"There was nothing in the paper industry except machinery,

* * labor had nothing to do with it," according to the view-

point of one of the delegates.

Mr. George W. Gair, president of the Robert Gair Co., took the stand that "those who want to run more than they are entitled to are simply breaking down any promise of decency in the industry."

simply breaking down any promise of decency in the industry."

A plea for the two-tour system was made by Mr. Tom Harvey, manager of the Gardner & Harvey Co., Middletown, Ohio, who reported that his men would rather work two than three tours. He said a great number of his force who had been working for the American Rolling Mill Co. on 8-hour shifts for more money than his paper mill could pay had come back to work for him on a 12-hour tour because work in his paper mill is far less strenuous and even affords opportunity for sleep while on duty. For the past 17 or 18 months his mill had been on a five-day basis, one tour having 48 hours off every week and the other tour 36 hours off.

The Chicago Mill & Lumber Co., Chicago, was, according to its president, Mr. Walter P. Paepcke, operating at present on two tours, but would prefer going to three tours for humanitarian reasons. He felt that if the mill gave its workers more money per day and per week they would not insist upon a 13-hour tour.

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Mr. Otto Bauer, president of the La Fayette Box Board & Paper Co., declared that he would go out of business rather than go back to the two-tour system which he felt did not make for good citizenship. Mr. Bauer appealed for voluntary action in correcting bad conditions instead of waiting until compelled by law. He held that the amendment to the resolution would not do away with Sunday work and that 120 hours per week were sufficient for any 24-hour industry. If six days and six nights were agreed upon simply on a chance of eliminating Sunday work, such work would not be eliminated.¹

Mr. George M. Seaman, president of the Eddy Paper Corporation, voiced the hope that the delegates would vote unanimously against the amendment, as under it they would all be doing Sunday work.

The Commissioner of Labor Statistics said: "We have represented here to-day at least 80 per cent of the paper box-board mills of the United States and probably 95 per cent of the production of such mills. I want you to feel that practically the whole industry is here represented and that whatever you agree on to-day will be the moral law of the industry. I do not believe that if you agree on something you will go back on it, that is, if it is practical, and it is up to you to make it practical."

The opposition of the Chicago Mill & Lumber Co. to the amendment was explained by its president, Mr. Walter P. Paepcke, on the ground that "any mill which feels it can clean up in 4 hours will run 5% days and then clean up in 5 or 6 hours." If anything happens "we will have to run a little over the time. * * * Everyone who is unsuccessful will overrun the time and in a very short time we will have chaos."

Mr. William W. Walker said that his mill closes down production on Friday at 7. a. m., cleans up and repairs, then starts up again and runs until 7 a. m. Sunday.

Mr. W. J. Alford, of the Continental Paper Co., inquired as to the condition of the workers after being on duty all Saturday night. In his opinion, a scheme involving repairs on Friday and a start the next day would seem very impractical to many of the box-board manufacturers.

The Franklin Board & Paper Co. has been operating with three tours and a six-day week. Its president, Mr. George Little, said it would not be able to compete if it operated less than six days. The desire for a holiday on Saturday, he thought, led a great many men to prefer the two-tour to the three-tour system because they were off duty from Saturday morning to Monday morning. He felt that it would be the proper thing to close down Saturday morning for the benefit of the working force if such closing down were found to be "legal." Even this limitation of the working week would not, in his judgment, "take up the excess of production."

¹ Mr. Bauer told the Commissioner of Labor Statistics that in the La Fayette Co. the tours were from 6 a. m. to 2 p. m., 2 p. m. to 10 p. m., and 10 p. m. to 6 a. m.

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Mr. Bruce Davidson, of the National Biscuit Co., raised the question as to where a sufficient supply of men were to be secured to run enough mills five days a week to provide for the future requirements of the industry. This speaker also suggested the practicability of beginning maintenance work Monday morning at 7 a. m. and allowing for such work one tour of 8 hours or even longer if necessary. He thought that 95 per cent of the time production could be started at 3 p. m. Monday. If the industry needs a 20 per cent curtailment of output the mills could be closed at 3 p. m. Saturdays. The president of the Robert Gair Co. emphasized the necessity for

a clear-cut agreement so that there would be no chance of cheating. An inquiry was made by one of the delegates as to whether the impending vote should be understood as in the nature of an approval of an operating schedule, not as a pledge obligating the mills represented, and also whether it should be understood that there were no legal means to enforce the resolution which might be adopted. The chairman replied that the proposed measures were for the purpose of "expressing the sense of the meeting."

Before voting on Mr. Walker's amendment it was agreed that the word "seventh day" should be substituted for "Sunday," which

made the measure submitted read as follows:

It is the sense of the meeting that the box-board industry mills curtail the hours of operation to a maximum of 6 full days a week, including washing up and repair work, also the total elimination of work on the seventh day.

The above proposal was defeated by a vote of 40 to 3, the rep-

resentatives of 18 companies not voting.

A ballot was then taken on the resolution as it stood prior to Mr. Walker's amendment. The resolution was adopted, 43 being in favor of it, 3 against it, and 15 not voting.²

The Eight-Hour Tour

THE Secretary of Labor acted as chairman at the afternoon session. He expressed his gratification on the passage of the resolution regarding the cutting out of Sunday work, and again called attention to the overdevelopment in the paper box-board industry and also to the recent action of the steel industry in adopting an 8-hour shift program. He predicted there would be hundreds of

Referring to the question of a shortage of man power, which was brought up in the morning session by the representative of the National Biscuit Co., the Secretary of Labor stressed the fact that there was a large amount of overdevelopment in industry, citing as examples the surplus of 240,000 men in the coal industry; the making of 750,000,000 pairs of shoes per annum although only 350,000,000 pairs were used; that all the steel needed per year is manufactured in eight months and all the window glass in seven months. He then urged the conference to take action on the matter of an eight-hour tour.

Whereupon the following resolution was introduced by Mr. Peter C. Brashear, president of the Fort Orange Paper Co., Castleton-on-Hudson, and was seconded by one of the delegates.

² The resolution referred to tour men.

It is the sense of this meeting that the 11 and 13 hour tours should be abolished, and that a committee be appointed from the industry to put into operation the eight-hour tour as soon as possible, and not later than January 1, 1925, and that eight hours is hereby recognized as the proper labor hours in the industry.²

Mr. E. B. Weston, president of the Auglaize Box Board Co., Dayton, Ohio, said that his men had petitioned for a return from the three to the two tour system which gave them every Saturday off. Upon being questioned Mr. Weston acknowledged that the workers' pay for 11 and 13 hour tours was higher than for 8-hour tours.

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According to Mr. C. W. Goodyear, treasurer of the Bogalusa Paper Co., Bogalusa, La., conditions in the South are somewhat different from those in other sections of the country; the days are longer and there is not the same demand for shorter hours. He thought that his men would prefer to remain on 2 tours in order to get two days off every other week and stated that an 8-hour tour for his company would necessitate the building of about 300 houses, and the increase of the water supply, sewerage, hospital capacity, and schools. He did not wish to vote against the resolution or decline to vote but would like to have a little more time given to the southern operators for considering the proposal.

The United States Commissioner of Labor Statistics reported that the production of the southern States, Alabama, Tennessee, Georgia, and Louisiana, was only 430 tons per day out of about 14,000 tons per day for the industry.

In order to ascertain how many of the companies represented were operating on a three-tour system, the Secretary of Labor asked the delegates of such companies to stand. Twenty-eight men rose. In response to a similar inquiry on the two-tour system, 27 men rose.

Mr. Tom Harvey, manager of the Gardner & Harvey Co., argued for the two-tour system on the ground that men would get lazy and stupid if they worked only eight hours a day in a board mill and that his men had of their own accord decided to work two tours. Mr. W. J. Alford, of the Continental Paper Co., took issue with this view, however, stating that men working in a board mill have very few minutes to sit around, and he was sure that the workers want long hours only when the employer does not pay a fair wage for an eight-hour day. Mr. Harvey admitted that his men did not get the same hourly rate as men working an eight-hour day.

The Secretary of Labor asked whether there was any "great clamor" among men on 8-hour tours to go back to two tours. The president of the Robert Gair Co. reported that he had many men who would object to going back.

The Rockford Paper Box Board Co., Rockford, Ill., trains its own men and does not take skilled labor from other establishments. The secretary, Mr. Ray Wantz, spoke of the consequent problem involved in that company's going on a three-tour system. The management tried to make up for the shortage of trained help by getting the men to work overtime from other tours. They objected strenuously to this, however, and the two-tour system was again resorted to, but with the understanding that unskilled labor should work alongside the skilled men until trained. At present the extra set of men is about ready to do the skilled work and Mr. Wantz was of the opinion that the three-tour plan can be adopted without any great difficulty.

² The resolution referred to tour men.

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n is nion ilty. In the opinion of Mr. Sidney Frohman, president of the Hinde & pauch Paper Co. of Sandusky, Ohio, only 40 per cent of the delegates would vote against the resolution. He advocated its withdrawal and the calling of another conference by the Secretary of Labor six or eight months later to report on changes resulting from the present meeting and for a further analysis of the situation.

In response to a question by the Secretary of Labor as to how many companies now operating on two tours would establish three tours by January 1, 1925, 11 men rose, one of the number stating that he would make the change if it was acceptable to his workers.

The president of the Chicago Mill & Lumber Co. suggested thar more representatives would have risen if they had known what theit competitors were going to do, adding that his own company would go on three tours if he could count on five or six of its competitors doing likewise.

The president of the Robert Gair Co. stated that three out of the four mills of his company were operating on three tours and that the company would adopt three tours for his Chicago plant whenever the Chicago Mill & Lumber Co. would do so. Whereupon these two officials then and there entered into an agreement to run on the new basis.

The problems in the way of abandoning the two-tour system in his company were discussed by Mr. W. H. Richardson, vice president of the Richardson Co., Lockland, Ohio. He explained that if his board machines were to be run on three tours his felt machines would have to be operated on the same system, and that a five-day week for board machines would mean a six-day working week for the felt machines so that the proposed changes if carried out would also affect his felt machines and his roofing business, which was quite another proposition.

A part of the objection in the conference was declared by the president of the La Fayette Box Board & Paper Co. to be due to a mental attitude and a mental condition. His establishment was on a three-tour basis and he thought there was no reason why all the mills in the industry should not do the same thing. It required no special effort—merely the "right mental attitude." He made a strong plea

for whole-hearted action in favor of an eight-hour day.

The resolution was adopted by a vote of 49 with no opposing vote,

12 delegates not voting.

Congratulations were extended to the conference by the Secretary of Labor and the Commissioner of Labor Statistics. The latter pointed out that the nonvoting element constituted "the fly in the ointment;" at the same time he was sure that in a substantial percentage of cases failure to vote was due to the delegates' feeling that they would have to make some arrangements when they got back, before committing themselves definitely to the three-tour scheme.

The following committee, representing different sections of the country, was elected to carry out the plans and policies agreed upon at the conference, and to make progress reports at intervals to the Secretary of Labor and the Commissioner of Labor Statistics:

Secretary of Labor and the Commissioner of Labor Statistics:

Eastern and Seaboard: Mr. Geo. W. Gair; Mr. John Jacobs; and Mr. Maurice W. Simon.

Central and Central West: Mr. Geo. M. Seaman; Mr. George Little; and Mr. H. L. Rauch.

Southern: Mr. A. M. Sheperd; Mr. A. C. Goodyear; and Mr. Fred A. Norris.

There was a rising vote of thanks to the three officials of the Depart.

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ment of Labor for "the splendid work accomplished."

The Commissioner of Labor Statistics said he was much more pleased with the day's work than any of the delegates could be. He also warned that no line of industry in this country could go on much longer on a basis of 11 and 13 hour tours and 7 days a week without labor troubles that would "jar us all." He expressed his belief, however, that such troubles had been averted in the box-board industry.

The Secretary of Labor in his closing remarks to the conference declared that he had had a "joyful day" which had strengthened his

faith in the Government of the Nation.

At a meeting of the Boxboard Association the same afternoon it was agreed that the new plan of operation covered in the last resolution should become effective the following week.

Coal-mine Explosions and Their Prevention

By H. Foster Bain, Director, Bureau of Mines, U. S. Department of the

CINCE the first of January of this year five explosions, killing about 383 men, have occurred in the bituminous mines of the United States. The coal industry has not in years suffered as many big disasters in so short a time, and the entire country is properly aroused.

Why did these explosions occur? Were they entirely accidental or could they have been prevented? Will similar explosions follow? These are some of the questions which are asked. Investigations now under way will determine the causes of the past accidents and what, if anything, might have been done to prevent them, but investigations alone will give no assurance that similar accidents will not again occur. The lessons learned must be applied and every possible pre-

caution taken if this killing is to be stopped.

The let-down of morale on the part of the individual miner is indicated by an increase in the number of accidents caused by falls of roof or of coal falling at the working face, for the prevention of such accidents is a matter that is mainly in the hands of the individual worker. In the matter of explosions, however, there is a collective responsibility which begins with the individual whose act or carelessness is the cause of the accident and continues to the operator who permits mining conditions that allow the extension of a local explosion into one spreading through the mine. While one man may ignite

¹ This article on "Coal-mine explosions and their prevention" is in response to the following letter from the Commissioner of Labor Statistics:

[&]quot;My Dear Mr. Bain:

"It is intended to have a brief article in the June issue of the Monthly Labor Review upon the subject of recent mine explosions and prevention of explosions in mines.

"It seems to me that it would be most fitting if we could have a three or four page statement from you or some one in charge of that work dealing specifically with these questions—

"I. Were these catastrophes preventable? I mean the large mine explosions that have occurred within the last six months.

"2. Would they have been prevented had the published and available instruction and directions issued by the Bureau of Mines or anybody else (giving the source of such instruction), and already placed in the hands of the mine operators, been followed and complied with?

"3. If so, why were these explosions not prevented?

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"Commissioner of Labor Statistics."

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fire damp by smoking or opening a safety lamp, or may by firing a dangerous shot cause an explosion, the broadcasting of these explosions through the mine with the consequent large loss of life, is due invariably, so far as present knowledge goes, to the presence of coal dust, and investigations carried on by the Bureau of Mines for more than 10 years have demonstrated beyond question of doubt that such spreading of explosions by coal dust can be prevented. Responsibility for this rests upon the mine managements.

Although the possibility of coal dust causing explosions had been considered for more than a century, and much testing in laboratory apparatus and in small surface galleries had been done, few coalmining men, especially in America, believed, when the bureau began its work, that coal dust was explosive. It was generally held that fire damp or gases of unknown composition were responsible for explosions in bituminous mines.

As coal mines increased in number, size, and depth, explosions became alarming in their frequency. Then came the Courrières disaster in Northern France in 1906, by which 1,100 lives were lost, and the following year in this country the Monongah mine explosion in West Virginia, which killed 361 men, and the Darr explosion in Pennsylvania, which killed 239 men. These last two disasters, both in December, 1907, led Congress to order an investigation of the causes of mine explosions. This work was placed under the technologic branch of the United States Geological Survey, with the late Dr. Joseph A. Holmes in charge. When Congress established the Bureau of Mines in 1910, this work was transferred to the new organization, of which Doctor Holmes was named the first director. Shortly after his appointment, Doctor Holmes approved a plan for obtaining an experimental mine for investigating the causes and prevention of coal-dust explosions. The mine was opened on leased ground at Bruceton, Pa., a short distance outside of Pittsburgh, and has now been in active service for 12 years. The property has recently been purchased, so that the work may go on indefinitely.

The first 15 experimental explosions were brought about and studied during the fall of 1911 and the winter of 1912. The practical mining men of the country, who still were incredulous as to the explosibility of coal dust, were invited to be present and many came. Of these early explosions, two were so violent that the mine was idle for several months while the wreckage was being cleared away. In one of them, a mine car was shot from the entry of the mine with such force that it was carried nearly 300 feet before landing on an opposite hillside. After that, little doubt remained that coal dust was itself explosive and also the cause of an initial explosion being extended throughout the mine. Determination of means of prevention was less easily made.

Since that time more than 500 experimental explosions have been produced in the bureau's coal mine at Bruceton. Dusts from all parts of the country and from every type of bituminous coal have been used in propagating an explosion. In fact, knowledge of coaldust explosions has arrived at a point where, given a certain set of conditions, the engineers produce results predicted beforehand. Coincident with this work of studying the causes and effects of explosions, research was carried on to devise methods for the pre-

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vention of the wide spreading of minor initial explosions. Two methods were demonstrated. The first is to wet the dust thoroughly so that no dry dust remains in the mine. The coal dust is made into a mud which can not be thrown up into suspension in the air by concussion. It is this throwing it up in a cloud along the entry that permits the flame to pass from one volatile particle to another, which, when rapid enough, becomes an explosion. A better method is to dilute the coal dust with shale dust or limestone dust, or any noninflammable dust, so that the explosion will not pass from point to point even though a dust cloud be raised by the concussion of blasting or by the wreckage of a trip of cars.

The objection to the wetting down of the dust is that it must be done every day and must be thoroughly done to be effective. The second greatest coal-mine explosion disaster in this country followed the omission of watering over two days. The "shale dusting" method is required by law in Great Britain, where there is dangerous dust, and it is officially approved in France. Except for a few mines, rock dusting or shale dusting, to use the British term, has not been used in the United States, although it has been strongly recommended by the Bureau of Mines. Watering or humidifying has been relied upon in the coal mines of this country, but the numerous coal-dust explosion disasters of the past two years, some of which have occurred in what were considered well-watered mines, have caused mining men to be suspicious of the efficiency of watering.

Bureau of Mines officials state that watering as a general method is a failure and they urgently recommend rock dusting. The latter method has several great advantages: It does not have to be applied daily in every part of the mine as does water; the dust is visible and the presence of coal dust can be observed readily, which is not true in a watered mine; and the lightness of color of rock dust suitable for the purpose improves the illumination of the mine passages and so tends to prevent many individual accidents from haulage and dangerous roof conditions.

Many kinds of rock dust are suitable for the purpose, notably limestone and light-colored clayey shale free from flinty particles which it would be unhealthful to breathe. The Bureau of Mines offers to assist mine operators in determining the suitability of material which may be available for the purpose of rock dusting.

There are many things which should be done to lessen the amount of coal dust, but it is impossible to prevent entirely its formation or collection in bituminous mines. Only 81 hundredths of an ounce per cubic foot of air space in mine passageways, or five ounces per lineal foot of an entryway of ordinary size, which is barely enough to make a thin film when spread on the surface, will propagate an explosion. Treatment methods of some sort are, therefore, necessary.

Detailed information regarding the 494 explosion tests which had been produced at the experimental mine up to May 22, 1918, is contained in Bulletin 167 of the Bureau of Mines, of which George S. Rice, chief mining engineer, is the senior author. In this bulletin, the tests made with the various bituminous coal dusts, the methods of preventing explosions, and the means of limiting their effective area are all reviewed.

Although these tests include those made with many types of coal dust, if there still are mine operators in the country who doubt the explosibility of the dust formed in their own mines they need only send a sample to the Pittsburgh station of the Bureau of Mines and the explosibility of their dust will be determined. There is a regular procedure for making such tests, and operating officials of the mines are especially welcome as observers of the explosion which uniformly results. Methods of limiting and controlling such explosions by the use of shale dust are also regularly demonstrated to such visitors.

It is well also to remind the coal miners and operators of the seasonal dangers of coal mining. During the summer months the air in mines is full of moisture and the coal dust becomes damp or wet, but with the colder dry air of fall or winter, the moisture is rapidly dried out. When the coal dust is thus dried out and a small pocket of fire damp is ignited, a blown-out shot occurs, or there is an arcking from the electric cables, the dust may be ignited and an explosion may rush through the mine as far as the dry coal dust is present. A violent air wave precedes the explosion wave, raising the dust and thus providing the fuel for the extension of the explosion. After this is the deadly afterdamp which, by its poisonous and suffocating effects, kills those even beyond the area of flame and violence.

Up to the series of disastrous explosions in 1922 the record of decrease in explosions in recent years had led the Bureau of Mines to feel that dangers from this source were being eliminated. 1901 to 1910, before the bureau was formed, there were 106 explosions in which five or more men were killed, it being considered that where less than five men were killed there had been no extended propagation of a local explosion. In these 106 explosions, 3,296 men were killed. After the demonstrations in the bureau's experimental mine, beginning in 1911, the number of bituminous mine explosions declined as a result of the educational campaign inaugurated by the Bureau of Mines and the cooperation of miners and operators. In the 10 years from 1911 to 1920, 75 explosions occurred in which five or more men were killed, with a total of 2,057 deaths, a reduction of 1,239 in number killed as compared with the preceding 10 years, although the average number of miners and the average production had increased by nearly one-half. The most encouraging feature was that of the last years of this decade. In the four years, 1918, 1919, 1920, and 1921, deaths from explosions in which five or more men were killed were 41, 81, 47, and 21, respectively; hence the recent disasters cause alarm as probably indicating neglect of precautions.

A certain number of accidents due to risks of the occupation, such as the falls of roof, must be expected, but the present high rate is excessive. The great explosions, however, should not be considered to be normal occupational accidents. Explosions can and must be prevented. There is no reason, with the present knowledge, why local explosions in mines should spread throughout the entire underground workings. Miners and operators, as well as official inspectors, must take hold of the situation promptly and vigorously or there will be still more serious explosions and more men killed. Knowledge not applied is of no value, however practical it may be

in its bearings.

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e S. tin, ods Since the explosion at Castle Gate, Utah, on March 8, 1924, in which 172 lives were lost, all producing coal mines in that State have approved the program of the State industrial commission, effective July 1, which requires the use of rock dust to prevent the wide spreading of coal-dust explosions; the use of water on the cutter bars of mining machines to decrease the amount of dust formed; the use of closed lights; and the use of permissible explosives only, to be set off only by electric shot-firing methods. These requirements follow an intensive study of safety precautions made by the industrial commission after the disaster at Castle Gate.

Utah is the only State which has as yet required all these safety precautions, and it takes the lead, as a result, among all coal-mining

States in regulations for mine safety.

Prevention of Coal-dust Explosions and Other Accidents in Coal Mines

IN view of the unprecedented number of major mine disasters which have already occurred this year, a collection of articles relating to the extent and seriousness of such accidents, together with an article containing a suggested program for their prevention, published in the American Labor Legislation Review, March, 1924, are

of particular importance.

An article by H. Foster Bain, director of the United States Bureau of Mines gives a résumé of the work which is being done by the Federal Government toward combatting mine accidents. It has been found that while the loss of life per ton of coal produced in the United States is less than in other countries, the loss per 1,000 employees is several times greater. About half the deaths in coal mining are caused by falls of roof and rock, which can be prevented only by the exercise of care on the part of the individual workman. Safety campaigns and the extensive program of instruction in first aid carried on by the bureau have been the methods of prevention followed, the latter work not only supplying valuable training but also teaching the men to think about safety. Up to the present time nearly 100,000 men have taken the course given by the bureau and have received certificates.

While explosions and fires in mines kill fewer men than rock falls, they kill many at a time and therefore attract more attention. These accidents, too, are the ones which there is most hope of preventing through the extension and wider application of scientific knowledge. An important factor in accident prevention has been the development of permissible powders by the manufacturers in cooperation with the bureau. These are short-flame, low-temperature powders, of which specified quantities may be safely used in gaseous mines. Manufacturers making such powders can have them tested by the bureau for a small fee, and as long as any powder is kept up to the established grade it can be advertised as "permissible."

Similar work has been done in regard to designs of machinery for use in gaseous mines, especially that which is electrically driven. The use of electricity is safe only if it is employed in permissible apparatus, but the development of such safe devices and machines is slow and expensive. In this work the bureau cooperates with the manufacturer, setting the standards and testing the different machines.

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The mine rescue instruction and disaster work of the bureau is carried on by specially trained men from 10 safety stations and 10 mine rescue cars, their work supplementing that of the operators of the mines. In the main it is their purpose to insure at every mine enough trained men in the newer methods to handle a disaster, in addition to forming a reserve to be called upon by the industries in case of need.

The writer says, however, that in spite of "these and similar encouraging facts that might be cited, those who are most familiar with the work are impressed more with the large amount that remains to be done than with what has as yet been accomplished. Despite the cooperation of State and Federal forces, of companies and men, the sad fact remains that too many men are annually killed and disabled

in American mines."

An article on coal-dust explosions, by J. E. Jones, a mine safety engineer, deals with the experience of an Illinois coal company in preventive work in a number of mines located in a particularly hazardous coal field. The Franklin County coal field, in which most of these mines are situated, is a comparatively new field having at present an annual capacity of approximately 20,000,000 tons. The mines are gaseous and the coal dust is highly explosive, the fatality rate for the period 1904–1921 being nearly double that of the State for the same period. The difference in the rate is due in large part to fatalities resulting from explosions.

Much progress has been made in safeguarding against explosions in this field through a better understanding of the dangers of gas. The greatest factors in the reduction of the fatality rates have been the elimination to a large extent of the use of naked lights, the use of permissible explosives for blasting, and education of the workers in regard to the mining hazards and the necessity for complying with

the safety regulations.

A number of more or less serious mine explosions caused the company, which operates 12 mines in this section of Illinois, to begin the installation of closed lights and to conduct an investigation into the use of shale dust. This study was carried on with the aid of the Bureau of Mines which tested the explosive properties of the coal. It was found that dust in these mines, containing 58.66 per cent of incombustible matter with no gas present, did not propagate an explosion, but that dust containing 58.17 per cent of incombustible matter with 1.1 per cent methane present and dust containing 66.72 per cent incombustible matter with 2.2 per cent methane present both propagated explosions. Experiments also showed that shale dust, being almost entirely incombustible, could be successfully used in extinguishing explosions. In this mining region, too, early experience had shown the value of the panel system of mining, in which the panels are not connected but open into a pair of main entries for ventilation and haulage, in localizing explosions and mine fires. The entries leading into each panel and the haulage roads and air-courses are treated with shale dust, which is mechanically applied by small portable high-speed fans.

Since the adoption of the shale-dust system, seven explosions have occurred in the mines of this company. In all cases these explosions were stopped by the nearest shale-dust zones. In one case the explosion had a start of 700 feet before striking the section treated

with shale dust. This was a terrific explosion which gained in violence until coming in contact with the shale dust at the panel

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entrance where it was extinguished.

Considerable confidence has been engendered among the men and in the management of this company in the efficacy of shale dust in stopping the flame of an explosion, as a result of their experience, and it is considered that by neutralizing the coal dust with incombustible dust, installing closed lights of a type found permissible by the Bureau of Mines, and preventing as far as possible the accumulation of gas by proper ventilation and inspection, the frequency and severity of mine explosions, even in highly gaseous mines, can be greatly modified.

Another article in the series, entitled "Needless coal-mine accidents," by Dr. John B. Andrews, contains the recommendations of the American Association for Labor Legislation for their prevention,

Doctor Andrews cites the fatality rates of Great Britain and the United States for the years 1919, 1920, and 1921, the latest years for which comparable statistics are available, not only to show the much higher fatelity rate in this country but also the disturbing fact that "the relative fatality rates, though fluctuating rather widely, show on the whole a decided increase."

The rates for the years 1919 to 1921 are as follows:

FATALITY RATES PER 1,000 WORKERS

Year	United Kingdom	United States	Ratio— United States to United Kingdom
1919 1920	0. 94 . 88	3. 03 2. 92	3. 22 3. 32
1921	. 66	2. 42	3. 67

The rate for bituminous mines during the 10 years ending in 1922 is 4.30 per 1,000 employed, which is considerably higher than for the industry as a whole. The average number of men killed each year during this period is 1,824, of whom approximately one-half were killed by falls of roof and coal, about 18 per cent by mine cars and locomotives, and about 12 per cent by gas and coal-dust explosions, the remainder losing their lives from various other causes.

In connection with the five proposals put forward by Doctor Andrews for reducing the accident hazard in coal mines, the recent report of a committee representing coal-mine operators, miners, casualty insurance companies, mining engineers, mine inspectors, and statisticians under the chairmanship of E. A. Holbrook, dean of the mining school, Pennsylvania State College, is discussed.

The proposals are as follows:

1. The adoption of uniform legal minimum standards of safety.

2. The use underground of no explosive that is not after scientific investigation numbered among the "permissibles"; the strict limitation of "shooting of the solid"; and the use of shale or approved rock dust to check the spread of coal-dust explosions.

3. Reward careful employers and penalize the less scrupulous, by the universal adoption of schedule rating for insurance under accident compensation laws, with a further graduated penalty for cases of willful failure to put into effect

legal safety regulations.

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4. An adequate mine inspection staff selected upon a merit basis of training and experience, fairly paid for reasonably long tenure of office, and protected from partisan interference, whether political or industrial.

5. Greater public authority, Federal and State, to procure and disseminate information, and to establish and maintain on a uniform basis reasonable mini-

mum standards of safety.

While mining codes have been adopted in most of the coal-mining States—the first in Ohio in 1874—these codes differ so in scope and effectiveness, the writer states, that the association has noted "a growing conviction that unless State regulations are generally and rapidly improved, the suggestion is to be expected that operations in this industry which are regarded as in the nature of a public service should be subjected to some form of Federal control." The need of additional authority is said to be plainly apparent, since in 1922 the percentage of permissible explosives used in coal mining was 18.2. The following statement in regard to Federal supervision is made by the safety committee:

While many of us oppose so-called Government paternalism, yet we believe it is the duty of the Government to secure safety of life by wisely directed legislation. If the compulsion by the Government to use life-saving devices, as the airbrake and automatic coupler on our railroads, is proper, we believe the coal industry should prepare (especially in new operations) to universally adopt safety suggestions.

Although it is stated the need for the enforcement of the regulations in the second proposal is generally accepted and understood, the percentage of permissible explosives used is still so small and the use of rock or shale dust for the control of explosions is limited to such a small number of companies it seems that "if it is necessary on this subject to have compulsory legislation in this country, it cannot come too soon." In France and England the use of shale and rock is compulsory.

In connection with the third proposal, schedule rating is said to have already demonstrated its value in inducing employers to reduce insurance premiums through a reduction in hazards. Some mining States provide a special penalty of from 15 to 50 per cent additional compensation to the injured worker when it can be shown that the employer was guilty of serious or willful neglect of safety provisions, with a similar loss of accident compensation by the employee when he is the offender.

Official inspection is considered to be of great importance in influencing operating methods and working conditions, and the fourth and fifth proposals, for an adequate inspection staff and for greater public authority in securing information and enforcing regulations, are said to be in harmony with the best practical experience in factory as well as in mine accident prevention.

The seriousness of the present situation in the coal-mining industry and the urgent need for action is summed up by Doctor Andrews as

follows:

Every day that heedless coal mine managements delay the removal of needless accident hazards in their industry—every mine catastrophe that shocks the public through its needless sacrifice of human life—strengthens the argument for the adoption of uniform legal regulations. Moreover, some conscientious employers have made progress in mine accident prevention and it is only reasonable and fair that they be protected from the undercutting of any competitors who have been less humane, less responsive or less scrupulous. Voluntary effort is to be hailed with special enthusiasm, but it is only with the cooperation of supporting legislation, backed up by public opinion, that within a reasonable time the needless industrial hazards can be universally and permanently abolished.

New Arbitration Machinery in Germany

By Boris STERN

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NE of the first acts of the Streseman Government, in its attempt to bring about the much-needed equilibrium between the income and the expenses of the Reich, was completely to revise the structure and the procedure of the impartial arbitration machinery of the country. Arbitration as a Government institution had existed in Germany since December 5, 1916, when it, together with the compulsory shop committees, was introduced as a war measure by the national service law. Its nature and functions were however, definitely formulated only by the decree of December 23. 1918, which concerned itself chiefly with the problems of collective agreements. Since then hardly a law has been passed in the field of labor which has not added some function to the activities of the This is especially true of the works council law. arbitration boards. with its numerous legal technicalities, most of which were referred to the boards for final decision. Their dockets soon became so crowded that in spite of the increased number of members and the subdivision of the boards by trades and industries, no case was likely to come up for decision in less than 30 days after the filing of the application.

Besides this slow and awkward functioning of the machinery, there were other reasons why the arbitration boards became the object of attack by both employers and employees. The employers resented the constant interference of the arbitration boards in their relations with individual workers, while the employees soon came to realize that even when the decisions of the board were in their favor, they were far from actually securing the benefits of these decisions, for the simple reason that they were not binding upon the employers and to make them enforceable the workers had to apply to an official court, which could very easily dismiss the entire case on the ground of some legal or technical error on the part of the board. It was this lack of popularity, on the one hand, and the rapidly growing expense of its upkeep, on the other, that caused the Government to undertake a complete revision of the system. Plans for this revision were drafted some time ago and a bill was ready to be presented to the Reichstag, when the disastrous results of the inflationist policy, which brought the German Government to the very verge of bankruptcy, forced the latter to proceed with the revision without the approval of the Reichstag, as one of the means of securing the muchneeded economies.

The decrees of October 30, 1923, completely abolished the old arbitration boards and established instead a system different both in function and structure. First, the districts were made considerably larger and due consideration was given this time to the social and economic nature of the district, in contrast to the old division which was based upon the military requirements of the country. This, of course, became possible only after a large portion of the work previously done by the arbitration boards had been transferred, as will be seen later, to other agencies, and the scope of activities of the new boards thus considerably limited. Also in contrast to the old system, the new district boundaries were not made absolutely fixed and final, so that when needed, a redivision can easily be accomplished.

Besides, the various States were given the privilege of combining and forming joint arbitration boards for two or more States, thus eliminating the expense of setting up separate boards. This is especially significant, as the territorial boundaries of the separate States do not as a rule coincide with their economic interests. In the new division Prussia is allotted 66 boards, of which the Ruhr section alone is entitled to 10; Bavaria has 13; Saxony, 6; Thuringia, 6; Wurttemberg, 5; Baden, 4; Hesse, 3; Mecklenburg, 2; Bremen, 2; and Hamburg, Lubeck, Lippe, Waldeck, and Strelitz, 1 each.

Another important change in the system is that each new arbitration board must be presided over by an impartial chairman, appointed by the Government, whereas previously it was left to the members of the board to decide whether they should proceed alone, or with a chairman elected by themselves The new boards, like the old ones, are made up of an equal number of representatives of capital and labor, but the old distinction between permanent and temporary members was dropped, and the new members are considered public officials only when summoned to a session by the impartial chairman. The latter, however, is a permanent Government official, appointed by the State after a conference with the representatives of the employers' and workers' organizations. This conference does not in any way limit the powers of the authorities to appoint a candidate of their own choice, unless the representatives of capital and labor agree on a person, in which case the Government is obliged to appoint to office the person agreed upon.

In addition to the arbitration boards, the Minister of Labor is empowered to appoint one permanent arbitrator for each economic district and special temporary arbitrators in each labor dispute, should the importance of the case warrant. Formerly the Minister of Labor himself arbitrated such disputes, but experience showed this to have been the cause for much dissatisfaction with the Government by one side or the other, hence the attempt to refer even the most important cases to an impartial body. Altogether 20 such arbitrators have been appointed for districts which have been selected primarily for their economic importance, which accounts for the great difference in size. Berlin has been made a district as have been the Ruhr (with the arbitrator's office in Dortmund) and the Rhineland (office in Cologne); Silesia has been divided into Upper Silesia (office in Beuthen) and Lower Silesia (office in Breslau), while the rest of Prussia has but two arbitrators, one for East Prussia (office at Gumbinnen) and one for Pomerania (office at Stettin).

Labor disputes have been divided into two distinct groups: (1) Group disputes (Gesamte Streitigkeiten) affecting whole industries or all the employees of a single plant; and (2) individual disputes (Einzelne Streitigkeiten) affecting the individual worker in a plant.

Only the first group of cases has been placed within the scope of the newly established impartial machinery, while the second class has

been transferred to a different jurisdiction.

The duties of the arbitration boards and the arbitrators are, first, to mediate in the case of general collective agreements (Tarifverträge) when a whole industry is concerned, or in the case of works agreements (Betriebsvereinbarungen) when but a single plant is under consideration; in either case, they are to act only if there is no other special mediation agency provided for by a previous agreement or if

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such agency has failed to bring about the desired results. It must here be emphasized that this impartial machinery has been established with the purpose, not so much to settle disputes or strikes which have already-broken out as to bring about collective agreements which should prevent such occurrences. The boards act in a dispute when appealed to by one of the parties concerned or of their own accord if the gravity of the case warrants such action. There is no legal compulsion for either side to apply to the arbitration boards, although the by-laws of the A. D. G. B. (Allgemeiner Deutscher Gewerkschafts Bund), the central organization of the Socialist trade-unions, as well as of the other labor organizations, provide for arbitration in all cases where direct negotiations with the employers have failed. Only in the case of the most vital public utilities, such as the supply of water, gas, and electricity, are strikes and lockouts forbidden unless the dispute has been placed in the hands of an arbitration

board for a decision.1

The procedure of the boards or the arbitrator is as follows: First, the impartial chairman calls a conference of the two parties and attempts to bring them to an agreement without calling an official session of the board. An agreement concluded in this manner is in no way different from any other voluntary agreement concluded by direct negotiations. Should this effort of the chairman fail, it becomes his duty to organize an arbitration board consisting of two members from each party and presided over by himself. (If they deem it necessary, the arbitrators may call more than the prescribed number of members to serve on a board.) This board also sits as a mediation agency and only after the second effort to bring about a voluntary agreement between the parties has failed does the board make a proposition of its own, which, if accepted by both sides, becomes tantamount to a written contract. The presence of both parties at a session is not absolutely required; it is necessary only that a formal invitation be issued to both sides, and if one of them refuses to recognize the authority of the board and does not appear at the session, the board may proceed with the case and make a decision in the absence of that party. In either case, unless accepted by both sides or declared compulsory by the proper authorities (the arbitrators or the Ministers of Labor), the decision is not binding and the parties are left free to proceed as they please. It often happens, however, that in submitting the dispute to an arbitration board the parties agree beforehand to accept its decision, in which case the decision is, of course, binding.

The expenses of the arbitrators and the boards are carried by the Reich, but those of the boards are to be transferred to the separate States as soon as the planned redistribution of the incomes of the

Reich and State governments has taken place.

The second group of labor disputes, involving individual employees and arising chiefly on the grounds set forth in the industrial regulation order of 1891 and the works council law of 1920, constituted the majority of the cases which the old arbitration boards were called upon to decide. To realize the benefits of such decisions in their favor, however, the individual workers were compelled to apply to a court for a writ of enforcement, so that practically each

¹ President's decree of Dec. 10, 1920.

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case had to go before at least two bodies before its final disposition. The system was therefore both awkward and expensive and the new decree simplified it a great deal by completely transferring the jurisdiction over these cases from the arbitration board to the so-called labor courts. There are no real labor courts in Germany as yet, and the prospects for their establishment in the near future are very slight, but the name "labor courts" is now attached to the old industrial and commercial courts, which have been in existence in Germany since 1891. Both the industrial courts, which have jurisdiction over all the industrial workers and those salaried employees who receive a salary below a definite amount, and the commercial courts, which have jurisdiction over the greater part of the salaried employees, are organized very much in the same fashion as the arbitration boards. They consist of a chairman, usually a judge, appointed by the Government, and of eight jurors, four from each side, elected by the employers and the employees of the community in which the court is established. As in the case of the arbitration boards, no attorneys are allowed to plead before the labor courts and the parties concerned must be on hand to present their own case. In contrast, however, with the arbitration boards, the decisions of the labor courts are absolutely binding and enforceable and may be appealed only to the higher courts. The labor courts thus enjoy a clear advantage over the arbitration boards, and the transfer of the individual cases to their jurisdiction can not but lead to the satisfaction of all parties concerned, while the large economies to the Government are very obvious. The only permanent official of the courts is the chairman, who receives the regular salary of a judge, while the jurors are paid for their time of service only and at the rate they are receiving in their respective occupations.

The new system is much simpler than the old, and if it can be judged by its accomplishments during the short period of existence since November 1st, 1923, it also promises to be more efficient. At least in one instance the emergency law of October 13, 1923, led to a revision which not only curtailed to a very large extent the expenses of the Government, but actually resulted in an improvement upon

the old system.

Labor Law of Jalisco, Mexico

By ETHEL YOHE LARSON, OF THE U. S. BUREAU OF LABOR STATISTICS

O GIVE effect to Article 123 of the Federal constitution of Mexico, the State of Jalisco enacted the labor law of August 13, 1923. This law covers such subjects as labor contracts, rights and obligations of the contracting parties, hours and wages, conciliation and arbitration, employers' organizations and tradeunions, strikes and lockouts, private employees, shop rules, apprentices, safety and hygiene regulations, workmen's compensation, and labor inspection.

This is the eighth of a series of articles on labor legislation in the Mexican States, the seven previous ones having been published in the December, 1922, August, September, November, and December, 1923, and the February and April, 1924, issues of the Monthly Labor Review. The labor law of Jalisco was received by this bureau too late to be included in the previous studies; it is handled topically as were the other State laws.

Contracts of Employment

EMPLOYMENT contracts are classified by the law as follows: (1) Individual or collective; (2) oral or written; (3) contracts for work by the day or by the job; (4) contracts for definite or indefinite

periods.

In the following cases, the contract must be in writing: (1) All collective contracts; (2) contracts of partnership; (3) when the services are to be rendered in a factory or agricultural pursuit employing more than 25 workers; (4) when the services are to be rendered in a mine, irrespective of whether it is in the mine proper or in the reduction works (hacienda de beneficio); (5) when the services are to be rendered in banks, commercial establishments, or any other private enterprise; (6) when the work is to be performed at a camp which is more than 4 kilometers (2.5 miles) from a town.

All collective contracts shall be registered with the central board of conciliation and arbitration as well as with the secretary of the

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city council.

The following must be specified in all written contracts: (1) The nature of the contract, that is, whether it is individual or collective, for a definite or an indefinite period, or for a specified piece of work or by the day; (2) the name, nationality, age, sex, domicile, and civil status of the contracting parties, and the organization to which they belong; (3) the duration of the contract, if it is for a fixed period, specifying the date on which it is to begin; (4) the length of the working-day; (5) the salary or wages the laborer is to receive, and whether they are fixed by unit of time, or of work; (6) the place or places where the work is to be performed; (7) any other conditions, in conformity with the provisions of this law, agreed upon by the contracting parties. The contract shall be signed by the contracting parties before two witnesses. If the terms of the contract are not clear and precise and in consequence doubts as to its meaning arise, they shall be decided in favor of the workers.

Duration

The worker shall not be required to render any service not stipulated in the terms of the contract. If the contract does not clearly define the service to be rendered, only that which is compatible with the worker's strength, ability, profession, and condition may be required of him. If, after the expiration of the contract, the worker continues to render service, the contract will be considered extended indefinitely.

Termination

Contracts may be terminated (1) at the end of the contract period; (2) by mutual consent; (3) upon the death of either of the contracting parties; (4) upon the dissolution, liquidation, or bankruptcy of the employer; (5) upon the petition of either of the parties, when the contract was for an indefinite period, providing both parties have been notified in advance; (6) on account of the physical or moral incompetence of either party, provided this has been conclusively proved before the board; (7) upon the conclusion of the work for which the contract was made.

Grounds for discharge.—The following constitute justifiable grounds for the discharge of an employee upon application to the board of conciliation and arbitration: (1) When the worker does not render the service agreed upon; (2) when he reveals trade secrets; (3) when he causes loss to the employer's interests through negligence or disobedience; (4) when he misrepresents his qualifications, skill, etc.; (5) when he commits an immoral act or a penal offense during the performance of his tasks; (6) when he is habitually intoxicated; (7) when he refuses to render the agreed-upon service either during regular hours or as overtime in case of imminent danger or disaster, except when this service endangers his life; (8) when he causes considerable loss by careless misuse of tools. The employer may rescind the contract under any of the preceding circumstances.

When worker may quit.—A laborer may quit his employment for any of the following justifiable reasons: (1) If wages are not paid as stipulated in the contract; (2) if he or his family are maltreated by the employer or by his subordinates; (3) because of the commission of immoral acts by the employer in the shop or work place during the performance of the contract; (4) if, during the performance of the contract, the employer deliberately causes material injury to

objects which belong to the worker or are in his care.

The worker may rescind the contract: (1) If the employer requires him to do work which he has not contracted to do or which is beyond his strength and ability; (2) if he fails to pay the stipulated wage at the time and in the form agreed upon; (3) if he fails to observe the legal requirements as to sanitation and health or to adopt adequate measures to prevent accidents in the use of machines and other instruments; (4) if he fails to adopt adequate measures to prevent occupational diseases or to heed just recommendations made by the workers; (5) if he fails to take every scientific precaution to prevent the spread of malarial or infectious diseases in mines, drainage systems, and undertakings in insanitary regions; (6) if he fails to abide by the regulation that "in all enterprises at least 80 per cent of the workers are to be Mexican," and that in "new industries for which the workers require special training, facilities must be provided for the national workers to acquire the necessary knowledge; and work is to be given by preference to workers who have served before, if their conduct has been good"; (7) if he requires a longer workday than the legal workday or shortens or abolishes the rest periods; (8) if he requires the employees to work at more distant points than the place specified in the contract or more than 4 kilometers (2.5 miles) from his residence; (9) if he violates the provisions of the law regarding the employment of women before and after childbirth and the employment of minors; (10) if he violates the provision regarding the obligatory rest days; (11) if he refuses to make advance payments in cases required by law.

Unlawful discharge.—An employer shall not discharge a worker because he joins a labor organization, takes part in a lawful strike, or makes a protest or justifiable claim against the employer either on his

own account or as a representative of his trade organization.

Employer's liability.—If the employer discharges a worker without a justifiable reason, or if the latter quits the employment with a justifiable reason, the worker has a right to demand of the employer the payment of an indemnity equal to three months' wages, the con-

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Verbal Contracts

The lack of a written contract, when such is prescribed by the law, does not deprive the worker of any of his rights under such contract, it being assumed that such lack is the fault of the employer, who will be deprived of the right of action against the worker to compel him to complete the contract.

Contracts for Employment Outside of Mexico

A contract for work outside of Mexico shall be authorized by the municipal authorities and viséed by the consul of the country to which the worker is going. The lack of such visé in unavoidable cases, to be proved before the respective municipal authority, shall not invalidate the contract. The cost of transporting the worker and his family to the place where he is to work, including sustenance, shall be borne by the contractor, without right to deduct the amount from the wages; and the contractor shall also give security in an equivalent amount for the worker's repatriation at the expiration of the contract.

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Certain Provisions Void

The following provisions are declared not binding even though included in the contract: (1) Stipulations for an unreasonable workday; (2) provisions specifying a wage, which, in the judgment of the board of conciliation and arbitration, is not remunerative; (3) those providing for a longer period than one week before the payment of wages, or for payment of wages at stores, restaurants, cafes, canteens, etc., when the workers are not employed therein; (4) those involving, either directly or indirectly, an obligation to purchase articles of consumption in specified shops; (5) those permitting a retention of wages on the pretext of a fine; (6) those constituting a waiver of the worker's right to compensation for industrial accidents or occupational diseases, or of any right established by law for his aid and protection; (7) those contracting for the work of minors under 12 years of age; (8) those by which an employee assigns his wages to a third person. Persons violating the last-mentioned provision shall be fined from 10 to 200 pesos.

When Contracts are Void

Boards of conciliation and arbitration may annul labor contracts because of incompetence or error of either of the contracting parties. A contract void only because of lack of legal formalities, however, may be good if ratified or voluntarily complied with at any time.

Employers' and Workers' Organizations

EMPLOYERS and workers are granted the right to combine in defense of their respective interests. Registered employers' associations or trade-unions not of a political or religious character, whose by-laws have been approved by the members, whose establishment

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ne in assowhose ment has been reported to the Department of Labor and which have at least 10 members, except in industries where there are not as many as 10 establishments of the same class, shall be recognized as legal persons apart from their members. Subject to the same conditions, such organizations may group themselves into federations and confederations.

Collective Agreements

Collective agreements—i. e., agreements negotiated by employers and workers who are organized in accordance with the labor law—are governed, as regards duration, provisions, and termination, by

the laws relating to contracts in general.

Coverage.—Collective agreements will include and be binding upon those who join the respective organizations after the contract has been made and registered, but such new members must be informed of the terms of the contract when joining. Such agreements will also apply to employers or workers who do not belong to the respective organizations but have met with them to conclude an agreement, and to those who contract through attorneys, the power of attorney being in writing.

Members of the respective employers' and workers' organizations are responsible for performing the contract. Organizations are responsible for violations of the collective contracts made by them, but their representatives or directors shall be responsible only in

cases of violations committed by themselves individually.

Labor Disputes

THE law recognizes the right of workmen to strike and of employers to suspend work in defense of their interests.

Strikes

When lawful.—Lawful strikes are those for the purpose of securing a "balance between the different agents of production, harmonizing the rights of labor with those of capital."

When unlawful.—Unlawful strikes are (1) those in which a majority of the strikers engage in violent acts against person or property; (2) those in establishments and services upon which the Government

depends in time of war.

Strikes in public services.—Workers employed in the public services are required to give notice to the board of conciliation and arbitration

10 days in advance of the date set for a strike.

Procedure.—When a strike is imminent the workers or their representatives shall appear before the board of conciliation and arbitration and request its intervention to attempt a settlement. If this fails, the workers shall give notice to the employers and to the board 10 days before the date set for the strike.

Pending settlement of disputes.—Employers are prohibited from suspending work or dismissing workers during the period of conciliation and arbitration. The workers are also prohibited from quitting

before the date set for the strike.

Hiring of strikebreakers prohibited.—Pending the settlement of a lawful strike, employers are prohibited from hiring other workers to replace those on strike. If, however, the workers refuse to resume

their work in three days following the decision of the board the employer may hire other workers without being obligated to indemnify the former workers.

Penalties.—If the workers declare a strike without first attempting conciliation and without previously having notified the board and the employer of their intention, the latter may hire other workers to replace the strikers without contracting any liability. The employer who discharges a worker for having taken part in a lawful strike shall be required either to fulfill the contract or to pay the worker three months' wages as indemnity, at the choice of the latter, provided the worker's attitude and his part in the strike justifies this, Strikers will be liable for crimes and offenses committed during the strike under the provisions of the Penal Code.

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Shutdowns

When lawful.—Shutdowns will be considered lawful when overproduction necessitates the suspension of operations in order to maintain prices at a profitable level, the previous approval of the board of conciliation and arbitration being required. When necessary to curtail operations because of overproduction or of scarcity of raw materials employers may reduce the hours or days of labor, and in agreement with their workers or their representatives, may distribute the available work equally among the whole force.

When unlawful.—Shutdowns will be unlawful in the following cases: (1) For the purpose of unlawfully dismissing workers or representatives of labor organizations; (2) to avoid granting workers petitions, based on the guaranties and rights given by the labor law; (3) to avoid complying with the awards of boards of conciliation and arbitration, or paying the minimum wage or share in profits fixed by special commissions.

Reemployment of former workers.—Former workers are to have preference in employment after a lawful shutdown. To this end employers must give two weeks' notice of their intention to resume operations.

Settlement of Labor Disputes

CHAPTER VII of the law provides that differences and disputes between employers and workers shall be submitted for settlement to the local board of conciliation in a municipality, which is subordinate to the central board of conciliation and arbitration.

Organization of Conciliation Boards

Local boards.—The municipal boards of conciliation shall consist of three members, one representative each of employers and workers, with the same number of alternates elected by the group which they represent, and one Government representative appointed by the city council. Members are elected for one-year periods and may be reelected. They can be removed, the employer and labor members by those whom they represent and the Government representative by the mayor or the city council. The former are elected during the first five days of December in general assemblies of the employers or workers or by their respective organizations. If they are not elected by a specified date the city council shall appoint provisional representatives to act until the official representatives are duly elected.

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Powers and Duties of Boards

Local boards.—Among the powers and duties of the municipal boards are the following: (1) To study and attempt to settle by conciliation disputes between capital and labor which come under their jurisdiction in matters pertaining to labor contracts, the workday, responsibility for accidents, wages, profit sharing, occupational diseases, strikes, shutdowns, etc.; (2) if conciliation fails, to arbitrate such conflicts and differences; (3) to establish in each municipality a commission to inspect private enterprises, a certain zone being assigned to each commission; (4) to draw up shop regulations in conjunction with the Department of Labor; (5) to make monthly reports to the Department of Labor concerning the activities of the board; (6) to consult with the Department of Labor on technical matters relating to their duties; (7) any other duties fixed by the laws.

Central board.—The central board has the following powers and duties: (1) To supervise the work of the local boards; (2) to have jurisdiction over the special commission on minimum wage and profit sharing; (3) to see that such a commission is formed in each municipality; (4) to study the objections of employers and workers against the fixing of a standard minimum wage and a share in the profits; (5) to make monthly reports to the Department of Labor concerning the economic operation of the standard minimum wage and the profit-sharing rates among laborers; (6) to study and decide labor disputes which affect all industries in the State or two or more municipalities; (7) any other duties assigned to it by law.

Procedure

The employers or the workers, acting themselves or by attorney or agent, may bring any matter in dispute before the municipal board of conciliation and arbitration, by either oral or written complaint. After notice to the other party, both parties shall submit evidence, the proceedings being informal and 96 hours being allowed for such investigation of the case. The board shall then endeavor to effect a conciliation. If the parties reach an agreement, it shall be reduced to writing and be binding upon them. If no agreement is reached at the end of 72 hours, the board shall resort to arbitration, 48 hours being allowed therefor. When a controversy brought before a local board affects two or more municipalities, the case shall be transferred to the central board of conciliation and arbitration.

If employer defendants refuse to submit to arbitration, the employment contract will be terminated and the employer required to pay the claim and damages equal to three months' wages, while if the workers refuse to arbitrate the contract will be terminated.

Protests against a standard minimum wage or profit-sharing rate may be presented to the central board of conciliation or arbitration by any employer or worker, or organization thereof, affected thereby, within 20 days of the publishing of such rate. Eight days are allowed for the presentation of evidence and arguments to the court, which shall render its decision either confirming or modifying the rate within three days thereafter.

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In controversies affecting all the industries in the State, or two or more municipalities, eight days shall be allowed for presentation of evidence to the central board of conciliation and arbitration, and six days for effecting a conciliation.

Decisions of the central and municipal boards, which shall be by majority vote, shall state the reasons on which they are based and shall set forth the award in specific terms and shall be in writing.

Hours of Labor and of Rest

THE law establishes the maximum 8-hour day as the legal workingday, seven hours as the maximum for nightwork, and seven and one-half hours for the "mixed day," i. e., one in which the working period includes both day and night work. Daywork is defined as being work done between 6 a. m. and 6 p. m., and nightwork as that done between 6 p. m. and 6 a. m. The workday begins the moment the employee enters the place of employment agreed upon in the contract.

The workday shall not be continuous, but the employees shall be granted at least one hour a day for meal time. The workers may relinquish this privilege if they so desire.

Overtime work, i. e., all work in excess of the maximum workingday, is permitted only under extraordinary circumstances, when there is grave danger or because of force majeure, and by a mutual agreement between the employers and workers. Overtime work shall not exceed three hours per day, nor be required on more than three consecutive days.

The law stipulates that for six days of work there must be at least one day of rest. The first of May and the 16th of September of each year shall be obligatory holidays as well as any other days so declared by Congress in decree No. 1895.

In continuous industries the hours shall be so regulated as to give the workers the obligatory rest days provided for by this law. The mayor of each municipality shall designate those drug stores which shall keep open, by turns, on obligatory rest days to attend to local needs.

The provisions concerning the legal working-day and the obligatory rest days shall apply to employees in commercial establishments, offices, and departments and in general all employees in private establishments or enterprises. These provisions also apply to restaurants, pastry shops, ice plants, hotels, and other similar undertakings.

Wages

WAGES are defined as the pecuniary remuneration paid by the employer to the employee or laborer by virtue of the employment contract. In no case may the wage be less than that fixed as the minimum wage in the manner provided by this law. In determining wages the quantity and quality of the services rendered and whether the work is done during the day or night shall be taken into consideration. Wages for nightwork should be 10 or 20 per cent more than for daywork. All wages must be paid in legal currency, and not in counters, promissory notes, cards, or any other substitute for money. For violating this provision a fine of from 50 to 500 pesos will be imposed. All wages must be paid at regular periods agreed upon in the contract, not to exceed a week in the case of laborers and two weeks in the case of employees or domestic servants. For debts contracted by the worker he alone can be held responsible; in no case may members of his family be held responsible, nor can there be demanded for such debts sums in excess of the worker's wages for one month. Equal compensation shall be paid for equal work, no discrimination being made because of sex or nationality. Wages must be paid by the employer or his representative to the worker or to some one designated by the worker, and such payment must be made at the place of employment. Wages may not be attached, discounted, or reduced, nor may the worker's household furniture, wearing apparel, books, or tools be attached. The payment of wages to minors and to married women is valid. Employers may not retain the wages of an employee on the pretext of a fine.

If the wages of a worker are determined by the quantity, quality, or measure of his work or by the application of some rate, he shall have the right to examine and verify such computations either personally or through a representative. Necessary overtime work shall be paid for at double the regular rate. Employers may not charge interest on wages advanced to the worker. Workers shall not be paid wages for holidays or for obligatory rest days unless the employer permits them to work on such days. Employers shall pay half the regular wages when the employees are obliged to suspend work on account of defects in machinery, tools, etc., due to ordinary usage.

Minimum Wage

By a minimum wage is understood a wage sufficient, according to the economic conditions in the community, to pay the cost of food, clothes, education, and ordinary recreation of the worker, considered as the head of a family. Employers are prohibited from paying to employees of either sex, wages less than the minimum, and any employer violating this provision shall be punished by a fine of from 50 to 500 pesos and required to reimburse the worker the amount illegally withheld. Employers shall give the workers a share of the profits of the business.

The minimum wage and also the share of the profits to be given the workers shall be fixed by a special municipal minimum wage commission. A municipal wage commission shall consist of one representative of the workers and one of the employers for each industry in the community, such representatives to be elected every three

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years, on the first day of December, either in general assemblies or through their respective organizations. The commission shall meet as often as necessary, but at least once a year. After organizing it shall proceed to obtain information as to the cost of articles of necessity, wages, supply and demand of labor in the community, and any other necessary data. All factories, commercial enterprises, labor bureaus, and agricultural and industrial undertakings are required to provide gratuitously any information requested by the commission and to make any investigation needed for this purpose. A fine of 20 pesos will be imposed for failure to comply with this provision. After five days of investigation the commission, by a majority vote. shall fix the minimum wage. Either the employer or the workers may appeal from the decision of the municipal board to the central board of conciliation and arbitration within 20 days of its publication. Decisions not appealed from shall have the force of law in the municipality. The minimum wage shall be revised from time to time after study of the economic conditions in the community.

Woman and Child Workers

MINORS between 12 and 16 years of age, irrespective of sex, shall not be required to work more than 6 hours daily. They shall not be employed for dangerous or unhealthful work, nor for night work in industrial establishments. In commercial establishments they shall not work after 10 p. m.

Women shall not be employed for dangerous or unhealthful work nor for night work in industrial establishments. In commercial establishments they shall not work after 10 p.m. Women may not be employed where intoxicating liquors for immediate consumption are sold.

During three months before childbirth, women may not perform work which requires considerable physical exertion or which injures in any way the health of the mother or the unborn child. For 30 days after childbirth women shall not be required to work but shall receive their entire wage, keep their employment, and be entitled to all their contractual rights. They may not return to work until examined by a physician. During the period of lactation women employees shall have two additional rest periods of half an hour each during which they may nurse their children. In factories and workshops where women are employed, suitable rooms, in charge of special attendants, shall be provided where nursing women may leave their children.

Hygiene and Safety

A SITE selected for a factory or workshop must be approved by the sanitary authorities and meet the requirements of the sanitary code, and not be damp, dangerous, or unhealthful. Factories, workshops, and like buildings shall be constructed in accordance with the requirements of the sanitary code. Workrooms therein shall be provided with proper and sufficient means of ventilation so that each employee shall have at least two square meters (2.39 square yards) of floor space and 8 cubic meters (10.46 cubic yards) of air space. The ventilation must be so regulated as to prevent drafts from endangering the health or comfort of the employees. The air shall be renewed by means of natural or artificial ventilation, the velocity of the air current to depend upon the number of employees,

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the extent of the work, and any natural emanations, as for instance in the mines. Each operator shall have at least 140 cubic meters of air each hour.

If, in the course of the business carried on in any workroom of a factory, gases, injurious dust or other impurities are generated or released in quantities tending to injure the health of the employees, proper devices to remove such impurities shall be provided. If due to the nature of the industry, smoke is given off, pipes or chimneys shall be maintained for its disposal, so as to prevent fire and its becoming a nuisance to the neighborhood, and if necessary, the employer will be obliged entirely to eliminate the smoke. If natural light in factories and workshops does not suffice, artificial illuminants, preferably electricity, shall be used. Great care shall be taken in the

use of lamps in order to prevent fires.

The roofs and walls of a factory should be well constructed so as to prevent sudden changes in temperature in the building. Floors shall be waterproof and smooth. Inflammable substances may be manufactured only in buildings of fireproof construction, and storage rooms containing raw materials and the finished product shall be separate from workrooms in which inflammable articles are manufactured, wherein electric lights or safety lamps should be used exclusively. Entrances to factories shall be large, and an adequate number of doors be provided to permit immediate egress in the event of a fire or other emergency. All doors shall open outward. establishments shall provide and maintain a fire-extinguishing apparatus and plenty of water with sufficient pressure. Waste water from factories and workshops, unless purified by a special process, may not be thrown into channels of water used for domestic and agricultural purposes, but separate conduits must be provided. There shall be provided in all factories and workshops a sufficient number of clean and well-ventilated toilets, at least one for every 30 persons, and separate toilets for each sex. The workers shall be provided with dressing rooms equipped with washstands and good drinking water.

Prevention of Accidents

In factories and workshops machines shall be so arranged, in large rooms, as to avoid danger to the workers. They shall be firmly placed on a solid foundation away from the partition walls, in order to avoid transmitting vibrations to the adjoining walls. Dangerous machines and those run by electricity shall bear conspicuous placards, marked "Danger." In order to install boilers, motors, or cables for light or for motive power, a permit must be obtained from the municipal authority, under the provisions of the sanitary code. Factories in which inflammable liquids or explosive substances are manufactured shall comply absolutely with the provisions of the sanitary code. Great care must be taken to maintain the machines and equipment in good condition so as to avoid danger. Establishments must be cleaned before work begins and under no circumstances shall garbage or rubbish be allowed to stand on the premises. All workshops, factories, offices, business stores, and industrial establishments shall provide sanitary cuspidors and post a conspicuous notice stating the danger of careless expectoration. Drinking water shall be kept in tanks protected from the heat and from contamination. The use of a common drinking cup is prohibited.

Special Regulations Required in Certain Industries

Definite regulations, in addition to those mentioned above, must be observed by certain industries the more important of which are the following: All chemical, pharmaceutical, and bacteriological laboratories; factories producing gunpowder, cartridges, nitric, sul-phuric, and carbonic acids; manufactories of poisonous and alcoholic substances; and printing and engraving shops. The regulations are as follows: (1) Acids shall be kept in well-constructed containers, while explosive and poisonous substances shall be stored in safety boxes labeled "Poison" or "Danger." (2) In those industries likely to cause occupational diseases the company physician is to keep close watch for the initial symptoms of such diseases, and upon their appearance in any workman, such workman is to be taken off that work and given prompt treatment. (3) Establishments are required to provide and maintain adequate and convenient wash rooms or washing facilities. (4) The employer shall furnish the workers, gratuitously, work clothes, caps, gloves, eyeglasses, masks, and certain pharmaceutical preparations. (5) Poisonous gases emitted in these establishments shall be drawn off by modern scientific means, and if the sanitary authority decides this is impossible great care shall be taken to maintain respirable air. tries using hides, horsehair, wool, old rags, etc., as raw materials must first have them disinfected. Workers whose hands are injured in any way shall keep them protected. (7) In the paper and pasteboard industries, special places shall be designated for the deposit of raw materials, from which they may be removed only after they have been moistened and placed in closed bags or boxes with lids. The workers who do this must be protected by caps, work clothes, and cotton respirators, and must keep their hands and faces clean. (8) In the glass-bottle industry the use of mechanical means for bottle blowing is obligatory. If, however, in the judgment of the sanitary authority, the establishment can not afford to use the mechanical process, the glass blowers' pipe may be used, but by only one person after it has been disinfected and after the doctor has inspected the operator's mouth. (9) In the tobacco industry pregnant women and nursing mothers shall wear work clothes and cotton respirators. (10) In those industries in which employees work under high atmospheric pressure and in poison-laden air they shall be examined carefully by the doctor. The workday in such industries shall be shorter than the ordinary workday, depending upon the intensity of the pressure. Before employees go into corridors, shafts, or conduits in which dangerous atmospheric conditions are thought to be present, the air should be tested with a bird or mouse. (11) In the repair of electric cables and telephones, the construction of buildings, sewers, tunnels, the felling of trees, etc., employers shall provide the workers with the necessary equipment for their protection and safety.

Workers suffering with infectious diseases are not to be employed. Disputes arising over this provision shall be decided by the local sanitary authority. Factories and workshops shall be disinfected once a year and whenever, in the judgment of a doctor or the sanitary authority, there is any suspicion of the appearance of an infectious disease. A worker suffering with an infectious disease shall be

isolated and not allowed to return to work until all danger of infection has disappeared. Industrial establishments shall give each worker a printed notice indicating the care to be taken to avoid accidents in the handling of machines, the employees being obliged to comply with such instructions.

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The company physician shall in addition to his other duties, act as aid to the sanitary authority and discharge the duties imposed upon him by the sanitary code. Employers who employ more than 100 workers shall furnish comfortable and sanitary dwellings for their workmen, for which they may charge annual rents not exceeding 6 per cent of the assessed value of the property. Employers shall also provide schools where there is no other school within a radius of 2 kilometers, provided the number of pupils exceeds 25. The school rooms must be sufficiently large and properly ventilated and lighted.

In work in coal mines, quarries, oil wells, and similar classes of work the storage, transportation, and handling of explosives are subject to the police regulations.

All mining companies and enterprises shall post clear and concise warning notice in all dangerous places in the mines in order to prevent accidents to the workers.

The mayor shall impose fines varying from 50 to 500 pesos for failure to comply with the provisions of this law concerning sanitation.

Shop Regulations

SHOP regulations are required in factories, workshops, and industrial establishments, but such regulations must be approved by the Department of Labor before they can be enforced. These regulations shall contain a statement of the hour of beginning and of stopping work, of the time allotted for rest periods, for the noonday meal and for the compulsory rest days, of the time and form of assigning materials and receiving work done outside of the establishment, and of the names of the representatives of the employer in the management and inspection of the work and of the representatives of the workers' interests. The rights and obligations of the managing personnel and inspection officers are to be clearly defined, as well as the rights and obligations of the workers' representatives.

A schedule of the wages fixed by the special minimum wage commission shall be included in the shop rules, as well as warnings against accidents and instruction in first aid. Any other provisions for the better execution of the work may be added to the regulations, but the provisions of the regulations must agree with the terms of the individual and collective contracts and with the labor laws.

The regulations shall be printed or legibly written and posted in a conspicuous place, and the workers are not to be denied the privilege of obtaining copies.

The central board of conciliation and arbitration shall be notified in writing of any violations of the regulations, either by the worker, the employer, or his representatives. After the violation has been proved the board shall fix the punishment therefor.

Workmen's Compensation

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THE employer is civilly liable for industrial accidents and occupational diseases suffered by his employees or workers when they arise out of, or in course of, the employment.

Employments Covered

The compensation law covers work in factories, workshops, industrial establishments where mechanical power is used, mining and quarry operations, all construction work, manufacturing and repairing of machinery, metallurgical works, foundries, gas and electric plants, telephone and telegraph enterprises, establishments manufacturing or using poisonous, unhealthful, explosive, or inflammable substances, and agricultural pursuits.

Injuries Covered

An industrial accident is defined as an injury arising out of or in the course of employment, proceeding from an unforeseen event from an outside force, which prevents the worker from continuing his work. An occupational disease is defined as an illness caused by an agent or circumstance inherent in the work or industry.

Injuries are not compensable when they are due to force majeure, or to the employee's imprudence or willful misconduct, provided this

is fully proved.

Compensation Benefits

In determining the employer's liability the wages fixed in the labor contract, or, if none are so fixed, those fixed by the special minimum wage commission shall be taken into consideration.

The compensation scale is based upon the earnings of the injured employee during the year preceding the accident. When, due to custom or to the nature of the business, the work lasts for a period less than a year, or when the worker has been employed less than a year, the scale shall be based upon the average weekly earnings. If the employee has not worked a week, his average daily wages shall be used as the base.

Death

If the industrial accident causes immediate death, or death follows the illness produced by the accident, the employer shall pay, in addition to funeral expenses, which are not to exceed 50 pesos, the following compensation: (a) To the wife with or without children, an amount equal to one year's wages of the deceased; (b) to minor children without father or mother an amount equal to one year's wages; (c) to the husband of the woman worker unable to support himself or his minor children, an amount equal to one year's wages; (d) to the parents of the worker, if they have been dependent upon the deceased, an amount equal to nine months' wages, this amount to be increased to one year's wages if there are neither spouse nor descendants. If death results from an occupational disease, the employer shall pay, in addition to funeral expenses, which are not to exceed 50 pesos, the following compensation: (a) To the wife, if there are no children, an amount equal to three months' wages of the deceased; (b) to the wife with minor children an amount equal

to six months' wages; (c) to minors having neither father nor mother an amount equal to six months' wages; (d) to the parents of the worker if they have been dependent upon him an amount equal to four months' wages, this amount to be increased to six months' wages if there are neither spouse nor descendants.

Permanent Total Disability

An employee who is permanently and totally disabled as the result of an industrial accident or occupational disease shall receive compensation equivalent to one year's wages.

Permanent Partial Disability

In cases of permanent partial disability resulting from an industrial accident or occupational disease the employer shall pay an amount equal to six months' wages.

Temporary Disability

For temporary disability employers are required to pay employees their full wages until they are able to return to work, provided the disability does not last longer than six months. If it exceeds this time, permanent disability benefits shall be awarded to the employee.

Medical and Pharmaceutical Attention

In addition to the compensation benefits described above, employers are required to furnish medical and pharmaceutical attention for employees until they are well.

Security of Payments

Employers are allowed to insure their risks with insurance companies or mutual aid societies at their own expense, provided these companies pay, in case of accident, the amount specified in the law or the employer pays the difference between the compensation and the amount of the policy.

Accident Reporting

Employers are required to report accidents to the mayor within 24 hours under a penalty of from 50 to 100 pesos. In such report the employer shall state the names and residences of the injured person or persons and of the witnesses and attach a medical certificate stating the condition of the injured person and the probable consequences of the accident. The injured employee or his representatives shall also make a report. If the medical report does not satisfy either of the parties, a physician shall be designated who shall examine the injured worker and report on the case in question.

Special Provisions

In case of the transfer or sale of a business the owner shall notify his successor of his obligations toward the workers under the provisions of this law and have included in the contract of transfer or sale all such agreements theretofore entered into, it being understood that the parties shall be jointly responsible for such previous agreements.

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the not ife, s of ual Any agreement made, either secretly or openly, for the purpose of evading liability for industrial accidents, and any agreement which is contrary to the provisions of this law, shall be invalid. Employers violating this provision shall be fined 500 pesos for the first offense and 1,000 pesos for the second offense, to be paid to the

injured employee.

If an employee suffering from an occupational disease refuses to be treated by the company physician, he may select another at the company's expense. In all cases of claimed occupational disease the employer has a right to designate another physician, who in association with the patient's physician shall follow the progress of the disease and decide as to its existence and whether or not it was contracted in the establishment. If the two physicians disagree, the board of conciliation and arbitration shall appoint a third physician.

If an employee suffering from an occupational disease refuses treatment recommended by the physician, the employer must report this fact to the judicial authority and to the board of conciliation and arbitration. If an employee suffering with an occupational disease dies, the attending physician shall issue a certificate stating whether the death was the result of the occupational disease or of some other illness.

Time for Claim

A claim for compensation shall be made within one year after the date of the accident.

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PRICES AND COST OF LIVING

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Retail Prices of Food in the United States

HE following tables are based on figures which have been received by the Bureau of Labor Statistics from retail dealers through monthly reports of actual selling prices.1

Table 1 shows for the United States retail prices of food, April 15, 1923, and March 15 and April 15, 1924, as well as the percentage changes in the year and in the month. For example, the price per quart of fresh milk was 13.6 cents in April, 1923; 13.9 cents in March, 1924, and 13.8 cents in April, 1924. These prices show an increase of 1 per cent in the year and a decrease of 1 per cent in the month. The cost of the various articles of food 2 combined show a decrease of 1 per cent April 15, 1924, as compared with April 15, 1923, and a decrease of 2 per cent April 15, 1924, as compared with March 15, 1924.

Table 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE, APRIL 15, 1924, COMPARED WITH APRIL 15, 1923, AND MARCH 15, 1924

[Percentage changes of five-tenths of 1 per cent and over are given in whole numbers]

Article	Unit	Averag	e retail pr	ice on—	Per cent of increas (+) or decreas (-) Apr. 15, 1924 compared with-		
Part may 14 (2)		Apr. 15, 1928	Mar. 15, 1924	Apr. 15, 1924	Apr. 15, 1923	Mar. 15, 1924	
Sirloin steak Round steak Rib roast Chuck roast Plate beef Pork chops Bacon Ham Lamb, leg of Hens Salmon, canned, red Milk, fresh Milk, tresh Milk, evaporated Butter Oleomargarine Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh Bread Flour Corn meal Rolled oats	do d	27. 8 19. 7 12. 7 28. 4 39. 1 45. 1 36. 2 36. 1 31. 2 13. 6 12. 2 57. 3 29. 1 27. 5 36. 3 17. 5 22. 6 34. 4 8. 7 4. 9 4. 0	Cents 38. 9 33. 1 28. 6 20. 6 13. 3 26. 9 36. 3 44. 0 37. 1 13. 9 12. 1 15. 0 30. 6 28. 9 36. 7 17. 5 24. 5 34. 8 8. 7 4. 6 4. 4 8. 8	Cents 39, 6 33, 7 20, 0 20, 9 13, 3 23, 7 36, 2 44, 4 38, 8 11, 1 31, 1 13, 8 11, 8 50, 1 30, 2 28, 5 17, 2 24, 5 32, 1 4, 6 4, 4 8, 8	+4 +4 +4 +6 +5 +1 -7 -2 +7 -0 3 +1 -3 -13 +4 +4 -2 -2 +8 -7 0 -6 +10 0	+2 +2 +1 +1 0 +7 -0.3 +1 +5 +1 0 -1 -2 -14 -1 -1 -3 -2 0 0 0 0	

In addition to monthly retail prices of food and coal, the bureau secures prices of gas and electricity from each of 51 cities. These prices are published at quarterly intervals in the Monthly Labor Review. Retail prices of dry goods were published quarterly until November, 1923.

The following 22 articles, weighted according to the consumption of the average family, have been used from January, 1913, to December, 1920: Sirloin steak, round steak, rib roast, chuck roast, plate beef, pork chops, bacon, ham, lard, hens, flour, corn meal, eggs, butter, milk, bread, potatoes, sugar, cheese, rice, coffee, and tea. The remainder of the 43 articles shown in Tables 1 and 2 have been included in the weighted aggregates for each month beginning with January, 1921.

TABLE 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE, APRIL 15, 1924, COMPARED WITH APRIL 15, 1923, AND MARCH 15, 1924—Concluded

Article	Unit	Averag	e retail pri	ice on—	Per cent of increase (+) or decrease (-) Apr. 15, 1920 compared with-		
	rigit da le	Apr. 15, 1923	Mar. 15, 1924	Apr. 15, 1924	Apr. 15, 1923	Mar. 15 1924	
Wheat cereal Macaroni Rice Beans, navy Potatoes Onions Cabbage Beans, baked Corn, canned Peas, canned Tomatoes, canned Sugar, granulated Tea Coffee Prunes Raisins Bananas Oranges All articles combined 1		2. 5 6. 5 8. 4 13. 0 15. 4 17. 5 12. 9 10. 6 69. 2 38. 0 19. 7 19. 7 19. 7 19. 5 20. 2	Cents 24.3 19.5 9.7 9.9 9.8 5.9 6.2 12.8 15.8 18.0 12.9 10.4 70.9 40.8 17.8 17.8 39.0 38.3	Cents 24. 3 19. 6 9. 8 9. 8 2. 8 5. 9 7. 1 12. 8 15. 8 18. 0 12. 9 9. 9 70. 9 41. 8 17. 5 36. 2 40. 2	$\begin{array}{c} -1 \\ -1 \\ +4 \\ -14 \\ +12 \\ -9 \\ -15 \\ -2 \\ +3 \\ +3 \\ 0 \\ -7 \\ +2 \\ +10 \\ -11 \\ -14 \\ -1 \\ -20 \\ -1 \end{array}$	0 +1 +1 -1 0 0 +15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

¹ See note 2, page 37.

Table 2 shows for the United States average retail prices of specified food articles on April 15, 1913, and on April 15 of each year from 1918 to 1924, together with percentage changes in April of each of these specified years, compared with April, 1913. For example, the price per pound of potatoes was 1.5 cents in April, 1913; 2.2 cents in April, 1918; 3.1 cents in April, 1919; 9.1 cents in April, 1920; 2.3 cents in April, 1921; 2.9 cents in April, 1922; 2.5 cents in April, 1923; and 2.8 cents in April, 1924.

As compared with the average price in April, 1913, these figures show the following increases: 47 per cent in April, 1918; 107 per cent in April, 1919; 507 per cent in April, 1920; 53 per cent in April, 1921; 93 per cent in April, 1922; 67 per cent in April, 1923; and 87 per cent in April, 1924.

The cost of the various articles of food combined showed an increase of 44 per cent in April, 1924, as compared with April, 1913.

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TABLE 2.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE, APRIL 15 OF CERTAIN SPECIFIED YEARS COMPARED WITH APRIL 15, 1913

[Percentage changes of five-tenths of 1 per cent and over are given in whole numbers]

Article	Unit	Α	l verag	ge reta	ail pri	ce oi	а Ар	r. 15	-	Per cent of increase (+) or decrease (-) Apr. 15 of each spec- cified year compared with Apr. 15, 1913.							
7 Albert		1913	1918	1919	1920	1921	1922	1923	1924	1918	1919	1920	1921	1922	1923	1924	
sirioin steak Round steak Rib roast Chuck roast Plate Beef Fork Chops Bacon Ham Lamb Hens Salmon (canned), red Milk, fresh Milk evaporated Butter Oleomargarine Nut margarine Cheese	do	25, 5 22, 2 20, 0 16, 2 12, 2 21, 6 26, 8 26, 5 20, 2 22, 2 8, 9	34. 5 29. 3 25. 5 19. 9 35. 6 49. 5 44. 6 35. 3 1 29. 5 13. 2	43. 7 40. 5 34. 6 29. 4 22. 6 41. 4 57. 2 52. 9 43. 0 1 32 2 15. 0 71. 3 39. 2 35. 2 41. 9	39. 9 33. 5 26. 6 19. 0 43. 2 51. 6 53. 6 43. 0 47. 8 16. 3 14. 4 76. 1 43. 2 36. 1 42. 8	40. 0 35. 6 30. 4 22. 4 15. 4 37. 1 44. 4 49. 3 34. 6 43. 1 38. 4 14. 9 14. 6 55. 6 32. 4 29. 1 37. 3	36. 4 31. 4 27. 3 19. 5 13. 0 33. 0 39. 7 50. 7 38. 5 37. 8 32. 4 12. 7 11. 1 45. 2 27. 7 26. 9	37. 9 32. 3 27. 8 19. 7 12. 7 28. 4 39. 1 45. 1 36. 2 36. 1 31. 2 13. 6 12. 2 57. 3 29. 1 27. 5	39. 6 33. 7 29. 0 20. 9 13. 3 28. 7 36. 2 44. 4 38. 8 36. 1 31. 1 13. 8 11. 8 50. 1 228. 5 35. 5	+55 +47 +57 +63 +65 +85 +68 +75 +48 +25	+82 +73 +81 +85 +92 +113 +100 +98 +94 +69 +76	+80 +68 +64 +56 +100 +93 +102 +113 +115 +83	+60 +52 +38 +26 +72 +66 +86 +71 +94 +67 +38	+41 +37 +20 +7 +53 +48 +91 +70 +43 -+12 	+45 +39 +22 +4 +31 +46 +70 +79 +63 +53 +42	+52 +45 +29 +9 +33 +35 +68 +92 +63 +55 +24	
Lard Vegetable lard sub- stitute Eggs, strictly fresh Fread Flour Corn meal Rolled oats Corn flakes Macaroni	Dozen . Pound	25, 2 5, 6 3, 3 2, 9	42. 5 9. 8 6. 6 7. 1	35, 3 33, 4 49, 3 9, 8 7, 2 6, 0	30. 1 37. 5 52. 8 11. 2 8. 1 6. 5	23. 1 34. 3 10. 3 5. 9 4. 6	22, 1 31, 7 8, 7 5, 3 3, 9	17. 5 22. 6 34. 4 8. 7 4. 9 4. 0	24. 5 32. 1 8. 7 4. 6 4. 4	+109 +69 +75 +100 +145	+123 +96 +75 +118 +107	+91 +110 +100 +145 +124	+16 +36 +84 +79 +59	+7 +26 +55 +61 +34	+11 +37 +55 +48 +38	+27 +55 +39 +52	
dide. Geans, navy otatoes nions Tabbage orn, canned	do	1. 5	2. 2 3. 3	3. 1 6. 9 9. 1	9. 1 10. 1 9. 2	2. 3 3. 9 5. 1	2. 9 13. 8 5. 3	2. 5 6. 5 8. 4	2.8 5.9	+47	+107	+507	+53	+93	+67	+87	
res, canned 'omatoes, canned ugar, granulated ea offee runes alsins	Pounddododo Dozen -	5. 4 54. 3 29. 8	9, 1 63, 9 30, 1 16, 6 15, 1	19. 0 15. 9 10. 6 69. 7 38. 5 21. 9 16. 3 37. 6	19. 0 15. 1 20. 2 73. 3 49. 1 28. 4 26. 9 41. 7	17. 8 11. 5 9. 7 70. 4 36. 6 19. 5 31. 3	17. 8 13. 7 6. 7 67. 7 35. 7 20. 0 24. 4 36. 1	17. 5 12. 9 10. 6 69. 2 38. 0 19. 7 18. 0 36. 6	18. 0 12. 9 9. 9 70. 9 41. 8 17. 5 15. 5 36. 2	+69 +18 +1	+96 +28 +29	+274 +35 +65	+80 +30 +23	+24 +25 +20	+96 +27 +28	+83 +31 +40	
ranges Il articles combined •_	do			55, 5	64. 6	44. 4	61. 1	50, 2	40. 2		+85						

¹ Both pink and red. ² 15-16 ounce can. ³ 8-ounce package.

Table 3 shows the changes in the retail prices of each of 22 articles of food 3 as well as the changes in the amounts of these articles that could be purchased for \$1, each year, 1913 to 1923, and in April, 1924.

^{4 28-}ounce package.
5 No. 2 can.
6 See note 2, page 37.

¹ Although monthly prices of 43 food articles have been secured since January, 1919, prices of only 22 of these articles have been secured each month since 1913.

TABLE 3.—AVERAGE RETAIL PRICES OF SPECIFIED ARTICLES OF FOOD AND AMOUNT PURCHASABLE FOR \$1, IN EACH YEAR, 1913 TO 1923, AND IN APRIL 1914

	Sirloir	steak	Roune	d steak	Rib	roast	Chuel	k roast	Plat	e beef	Pork	chops
Year	Average retail price	Amt. for \$1	Average retail price	Amt. for \$1	A verage retail price	Amt. for \$1	Average retail price	Amt. for \$1		Amt.	Average retail price	Amt for \$
1913	. 259 . 257 . 273 . 315 . 389 . 417 . 437	Lbs. 3.9 3.9 3.9 3.7 3.2 2.6 2.4 2.3 2.6 2.7 2.6 2.5	Per lb. \$0, 223 236 236 245 290 369 389 395 344 323 335 335	Lbs. 4.5 4.2 4.3 4.1 3.4 2.7 2.6 6.2 5.5 2.9 3.1 3.0 3.0	Per lb. \$0. 198 .204 .201 .212 .249 .307 .325 .332 .291 .276 .284 .290	Lbs. 5.1 4.9 5.0 4.7 4.0 3.3 3.1 3.0 3.4 3.6 3.5 3.4	Per lb. \$0. 160 . 167 . 161 . 171 . 200 . 266 . 270 . 262 . 212 . 197 . 202 . 209	Lbs. 6. 3 6. 0 6. 2 5. 8 4. 8 3. 8 3. 7 5. 1 5. 0 4. 8	. 126	Lbs. 8.3 7.9 8.3 7.8 9.5 0.0 5.5 7.0 7.8 8.7 .5	. 220 . 203 . 227 . 319 . 396 . 423 . 423 . 349 . 330 . 304	Lbs. 4. 4. 4. 4. 3. 2. 2. 2. 2. 2. 3. 3. 3.
	Bac	on	Ha	m	La	rd	He	ns	E	ggs	Bt	itter
1913	Per 1b. \$0. 270 . 275 . 269 . 287 . 410 . 529 . 554 . 523 . 427 . 398 . 391 . 362	Lbs. 3.7 3.6 3.7 3.6 3.7 3.5 4 1.9 1.8 1.9 2.3 2.5 2.6 2.8	Per lb. \$0, 269 . 273 . 261 . 294 . 382 . 479 . 534 . 555 . 488 . 485 . 444	Lbs. 3.7 3.7 3.8 3.4 2.6 2.1 1.9 1.8 2.0 2.0 2.2 2.3	Per lb. \$0. 158 - 156 - 148 - 175 - 276 - 333 - 369 - 295 - 180 - 170 - 177 - 172	Lbs. 6.3 6.4 6.8 5.77 3.6 3.0 2.7 3.4 5.6 5.9 5.6 8	Per lb. \$0, 213 -218 -208 -236 -286 -377 -411 -447 -397 -360 -350 -361	Lbs. 4.7 4.6 4.8 4.2 5.2 7 2.4 2.2 2.5 5.2 8 2.9 2.8	Per dz. \$0, 345 . 353 . 341 . 375 . 481 . 569 . 628 . 681 . 509 . 444 . 465 . 321	Dozs. 2. 9 2. 8 2. 9 2. 7 2. 1 1. 8 1. 6 1. 5 2. 0 2. 3 2. 2 2 3. 1	Per lb \$0. 383 . 362 . 358 . 394 . 487 . 577 . 678 . 701 . 517 . 479 . 554 . 501	. Lhs. 2 2 2 2 2 2 1 1 1 1 2 2 1 2 2
	Che	ese	Mi	lk	Bre	ad	Flo	our	Corn	meal	R	ice
913	. 332	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4 2.9 3.0 2.7 2.8	Per qt. \$0.099 .089 .089 .091 .112 .139 .155 .167 .146 .131 .138 .138	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 2	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087	Lbs. 17. 9 15. 9 14. 3 13. 7 7 10. 9 10. 2 10. 0 8. 7 10. 11. 5 11. 5	Per lb. \$0. 033 . 034 . 042 . 044 . 070 . 067 . 072 . 081 . 058 . 051 . 047 . 046	Lbs. 30, 3 29, 4 23, 8 22, 7 14, 3 14, 9 13, 9 12, 3 17, 2 19, 6 21, 3 21, 7	Per 16, 80, 030 . 032 . 033 . 034 . 058 . 064 . 065 . 045 . 039 . 041 . 044	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 22 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4 22. 7	Per lb 90. 087 .088 .091 .109 .151 .174 .095 .095 .098	. Lbs 41 41 41 41 41 41 41 41 41 41 41 41 41
	Potat	toes	Sug	ar	Cof	lee	Т	a,				
913	Per lb. \$0. 017 . 018 . 015 . 027 . 043 . 032 . 038 . 063 . 031 . 028 . 029 . 028	Lbs. 58, 8 55, 6 66, 7 37, 0 23, 3 31, 3 26, 3 15, 9 32, 3 35, 7 34, 5 35, 7	Pet lb. \$0.055 .059 .066 .080 .093 .097 .113 .194 .080 .073 .101	Lbs. 18, 2 16, 9 15, 2 12, 5 10, 8 10, 3 8, 8 5, 2 12, 5 13, 7 9, 9 10, 1	Per lb. \$0. 298 . 297 . 300 . 299 . 302 . 305 . 433 . 470 . 363 . 361 . 377 . 418	Lbs. 3.4 3.3 3.3 3.3 3.3 2.1 2.8 2.7 2.4	Per lb. \$0. 544 . 546 . 545 . 546 . 582 . 648 . 701 . 733 . 697 . 681 . 695 . 709	Lbs. 1.8 1.8 1.8 1.7 1.5 1.4 1.4 1.5	ds ew an Mo m-ad	shouls being		

Index Numbers of Retail Prices of Food in the United States

INTABLE 4 index numbers are given which show the changes in the retail prices of each of 22 food articles, by years from 1907 to 1923, and by months for 1923 and for January through April, 1924. These index numbers, or relative prices, are based on the rear 1913 as 100, and are computed by dividing the average price of each commodity for each month and each year by the average price of that commodity for 1913. These figures must be used with caution. For example, the relative price of rib roast for the year 1920 was 168, which means that the average money price for the year 1920 was 68 per cent higher than the average money price for the year 1920 was 68 per cent higher than the average money price for the year 1913. The relative price of bacon for the year 1919 was 205 and for the year 1920, 194, which figures show a drop of 11 points but a decrease of only 5 per cent in the year.

In the last column of Table 4 are given index numbers, showing the changes in the retail cost of all articles of food combined. From January, 1913, to December, 1920, 22 articles have been included in the index, and beginning with January, 1921, 43 articles have been used. For an explanation of the method used in making the link between the cost of the market basket of 22 articles, weighted according to the average family consumption in 1901, and the cost of the market basket based on 43 articles and weighted according to the consumption in 1918, see MONTHLY LABOR REVIEW for March,

1921 (p. 25).

OOD AND RIL, 1924

Pork chops

for \$1

etail rice

er lb. Lbs.

203 227 319

423 349 330

304 287

62

Rice

Lha

11.5

11.0

10.5 10.5 10.2

Butter

Lhs

The curve shown in the chart on page 43 pictures more readily to the eye the changes in the cost of the family market basket and the trend in the cost of the food budget than do the index numbers given in the table. The retail cost of the food articles included in the index has decreased since July, 1920, until the curve is brought down in April, 1924, to approximately, where it was in April, 1917. The chart has been drawn on the logarithmic scale, because the percentages of increase or decrease are more accurately shown than on the arithmetic scale.

'See note 2, p. 37.

For index numbers of each month, January, 1913, to December, 1920, see Monthly Labor Review for February, 1921, pp. 19-21, and for each month of 1921 and 1922 see Monthly Labor Review of February, 1923, p. 69.

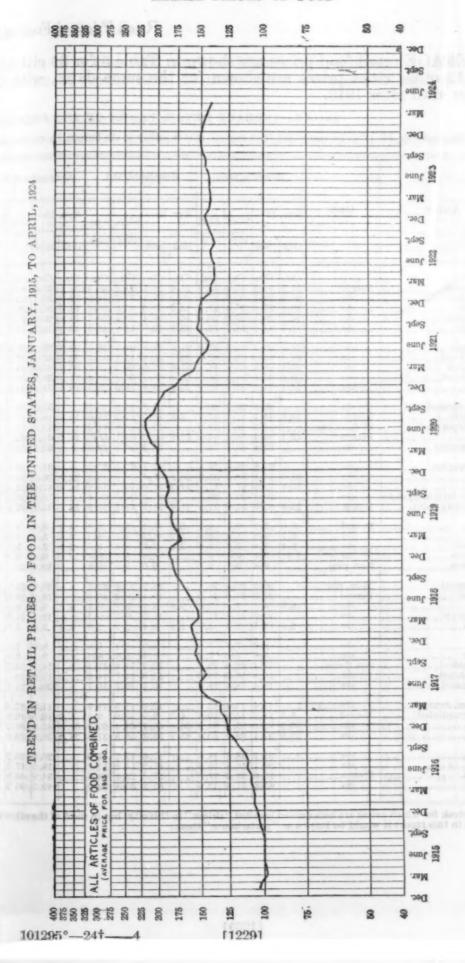
For a discussion of the logarithmic chart see article on "Comparison of arithmetic and ratio charts," by Lucian W. Chaney, Monthly Labor Review for March, 1919, pp. 20-34. Also "The 'ratio' chart," by Prof. Irving Fisher, reprinted from Quarterly Publications of the American Statistical Association June, 1917, pp. 577-601.

TABLE 4.—INDEX NUMBERS SHOWING CHANGES IN THE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN THE UNITED STATES, BY YEARS, 1907 TO 1923, BY MONTHS FOR 1923 AND FOR JANUARY TO APRIL, 1924

100
1
13
18
year
for
age
Ver
d

All articles com- bined	88.2 88.2 98.2 100.0
Tea	100 100 100 100 100 100 100 100 100 100
Cof-	100 100 100 100 100 100 100 100 100 100
Su- gar	100 100 100 100 100 100 100 100 100 100
Pota- toes	100 1111 1112 1112 1113 1130 1130 1130 1
Rice	100 000 000 000 000 000 000 000 000 000
Corn	888 994 995 1000 1000 1133 1133 1133 1133 1133 113
Flour	98. 100. 100. 100. 100. 100. 100. 100. 10
Bread	1125 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Milk	989 999 999 999 999 999 999 999 999 999
Cheese	100 100 100 100 100 100 100 100 100 100
But-	88 88 89 89 89 89 89 89 89 89 89 89 89 8
E	88 88 88 88 88 88 88 88 88 88 88 88 88
Hens	88888888888888888888888888888888888888
Lard	28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Ham	78
Ba- con	47.74 47
Pork	20110988 1000 1000 1000 1000 1000 1000 10
Plate beef c	110 110 110 110 110 110 110 110 110 110
Chuck I	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Rib C	. 85.28 8.18 8.10 100 100 100 100 100 100 100 100 100
	8114848898898844448889888484448888888888
Sirloin Round steak steak	25222222222222222222222222222222222222
Year and month	1907 1908 1908 1909 1910 1911 1912 1914 1916 1916 1917 1917 1917 1920 1920 1922 Av. for year 1922 January Rebruary March Aprill May June June June June June June June June

[1228]



Ap

AVERAGE retail food prices are shown in Table 5 for 39 cities for 12 other cities prices are shown for the same dates, with the bureau until after 1913.

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL

[The prices shown in this table are computed from reports sent monthly to the bureau by retail dealers.

		1	Atlant	ta, Ga		B	altim	ore, M	Id.	Bir	ming	ham,	Ala,
Article	Unit	Apr.	15-	Mar. 15,	Apr.	Apr.	15—	Mar. 15,	Apr. 15,	Apr.	15—	Mar.	Apr.
		1913	1923	1924	1924	1913	1924		1924	1913	1924	15, 1924	15, 1924
Sirloin steak Round steak Rib roast Chuck roast Plate beef	do	24. 5 21. 0 20. 6 14. 5 11. 6	34. 4 30. 5 27. 0 19. 5 11. 8	35. 0 30. 9 26. 1 19. 9 11. 7	35. 9 31. 8 27. 2 20. 5 12. 1	24. 0 22. 7 18. 7 16. 3 13. 2	36. 1 33. 1 29. 0 19. 4 12. 8	12. 9	38. 3 34. 0 30. 6 20. 7 13. 3	26. 1 22. 0 19. 3 16. 8 10. 5	35. 2 30. 7 26. 1 20. 7 13. 1	36. 3 32. 7 26. 4 21. 0 13. 6	37.6 33.1 26.3 20.6 13.9
Pork chops	dododododo	24. 5 32. 4 29. 5 20. 0 21. 1	26. 7 35. 5 45. 6 35. 5 31. 1	24. 5 32. 8 43. 8 34. 4 32. 7	27. 2 32. 8 44. 1 36. 1 32. 3	21. 0 22. 7 31. 0 20. 5 22. 0	28, 5 34, 6 52, 0 36, 2 39, 8	24. 7 32. 1 48. 2 37. 7 38. 9	26. 3 31. 5 48. 7 38. 6 38. 6	22. 5 32. 5 30. 0 21. 8 19. 3	28. 1 40. 1 45. 4 38. 8 31. 3	25. 8 37. 7 43. 6 36. 4 31. 9	27.1 37.1 44.6 40.6 32.1
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart 15-16 oz. can Pound	10. 0	29. 6 16. 7 14. 3 58. 4 32. 4	29. 3 17. 7 14. 1 58. 4 33. 1	29. 4 17. 7 13. 9 54. 2 32. 7	8. 8 42. 9	26. 8 13. 0 12. 0 62. 3 26. 0	26. 3 13. 0 11. 8 63. 4 28. 3	26. 3 13. 0 11. 6 55. 5 28. 0	10. 3 44. 4	31. 1 18. 5 13. 3 61. 1 33. 9	30.3 18.5 13.2 62.1 34.5	30.1 18.1 12.12.5 158.1 58.1
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	do	25. 0 15. 4	26. 8 35. 4	28. 0 35. 3	28. 4 33. 3	23. 8	27. 1 37. 5	27. 0 36. 5	27. 2 35. 3 16. 6	21.8	31. 2 36. 5	33. 6 36. 6	33.0
BreadFlour	Pounddodododo	6. 0 3. 7 2. 4	9. 2 5. 6 3. 4 9. 1 9. 8	9. 1 5. 4 3. 7 9. 1 9. 7	9. 1 5. 3 3. 8 9. 2 9. 7	5. 4 3. 2 2. 4	8. 4 4. 5 3. 2 8. 8 9. 0	8.8 4.3 3.5 8.4 8.8	8. 8 4. 3 3. 5 8. 4 8. 8	5. 3 3. 8 2. 1	8. 9 5. 9 3. 1 9. 4 10. 0	8.8 5.8 3.8 9.2	8 8.1 5 5. 5 3. 2 9.
Wheat cereal Macaroni Rice Beans, navy	28-oz. pkg Pounddododo	8. 6	26. 2 21. 0 8. 4 12. 9 3. 5	26. 5 21. 0 8. 8 12. 1 3. 4	26. 1 21. 0 9. 0 12. 1 3. 7	9. 0	23, 2 19, 4 8, 9 11, 0 2, 4	22. 8 10. 2 9. 7 9. 3 2. 9	22. 7 18. 8 9. 6 9. 3 2. 8	8. 2	26. 8 18. 9 9. 2 12. 4 3. 5	25.9 19.2 9.7 11.9 3.9	9 25, 2 19, 7 9, 9 11, 9 3,
Onions Cabbage Beans, baked Corn, canned Peas, canned	do		9.0	7 7	7.0		18 Q	6 1	E 44		9 6	1 77 7	20
Tomatoes, canned Sugar, granulated Tea Coffee													
Prunes Raisins Bananas Oranges	the state of the s							100000000000000000000000000000000000000	100		20. 9	20. 2 17. 5 40. 8	19. 17. 38.

¹ The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

Cities on Specified Dates

ood in 51

cities for

with the

RINCIPAL

etail dealers,

gham, Ala.

Mar. Apr. 15, 15, 1924 1924

Cts. Cts. 36.3 37.6 32.7 33.1 26.4 28.3 21.0 20.8 13.6 13.9

30. 3 30.2 18. 5 18.5 13. 2 12.8 62. 1 58.5 34. 5 34.3

33. 6 33.0 36. 6 35.7 17. 5 17.1 20. 9 20.6 33. 1 33.3

8. 8 8.8 5. 5 5.5 3. 5 3.4 9. 2 9.3 10. 1 10.1

25. 9 25.5 19. 2 19.3 9. 7 9.9 11. 9 11.6 3. 9 3.9

7. 1 7.2 6. 9 6.7 13. 3 13.3 16. 5 16.4 21. 4 21.4

12. 3 12.3 10. 6 10.2 36. 2 86.4 39. 0 39.5

0. 2 19.9 7. 5 17.2 0. 8 38.0 6. 2 35.6

her cities

April 15, 1913 and 1923, and for March 15 and April 15, 1924. For exception of April, 1913, as these cities were not scheduled by the

ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES

is some dealers occasionally fail to report, the number of quotations varies from month to month.]

							-	-	-								
,	Boston	, Mass.			dgepo Conn		В	uffalo	, N. 3	Y	Bu	tte, Me	ont.	Ch	arlest	on, S.	e.
Apr.	15-	Mar. 15,	Apr. 15,	Apr. 15,	Mar. 15,	Apr. 15,	Apr.	15—	Mar. 15,	Apr. 15.	Apr.	Mar.	Apr. 15,	Apr.	15—	Mar. 15,	Apr. 15,
1913	1923	1924	1924	1923	1924	1924	1913	1923	1924	1924	1923	1924	1924	1913	1923	1924	1924
Cts. 4 36. 3 34. 0 24. 4 18. 0	46. 8 35. 5	38. 6 24. 7	50. 7 38. 7 25. 4	Cts. 43. 5 36. 7 33. 2 22. 7 10. 0	34.9	38. 9 35. 7	19. 3 17. 5	27.3	Cts. 36. 7 31. 1 27. 8 20. 8 12. 3	28. 5	25. 4 22. 9	24. 2 22. 0 16. 2	24. 5 22. 9 16. 6		33. 8 29. 7 21. 8	34. 0 31. 0 27. 5 21. 0	34.0
23. 8 25. 0 30. 5 24. 3 24. 6	30. 3 37. 5 50. 0 38. 0 39. 0	36. 0 49. 3 39. 4	36. 0 49. 0 40. 8	44. 1 52. 5 36. 3	42. 4 49. 1 38. 2	42. 2 48. 8 39. 4		32. 5 45. 4 32. 1	44. 6 32. 2	28. 9 45. 4 34. 6	46. 8 50. 0 30. 7	45. 5 49. 5 32. 7	27. 1 45. 0 49. 5 35. 5 29. 8	25. 5 26. 7	35. 2 40. 8 44. 8	41.3	32.9 41.1 43.3
8. 9 42. 1	29. 0 13. 9 12. 7 60. 4 31. 0	12. 9 12. 7 60. 4	12. 4 12. 4 51. 0	15. 0 12. 5 59. 1	12. 5 59. 0	14. 0 12. 2	40. 2	11.8	12. 3 11. 7 57. 7	12.0	14. 2 12. 4 52. 7	14.3 11.8 54.7	14. 3	11.7	18. 0 12. 2 57. 7	26. 8 18. 5 12. 0 58. 4 30. 8	18. 5 11. 8 53. 0
22. 6 16. 0 31. 0	26. 3 38. 8 18. 0 24. 3 48. 5	39. 8 18. 3 22. 9	38. 3 17. 5 22. 5	37. 5 17. 5	38. 9 17. 1 24. 6	39. 2 16. 9	19.0 14.3 24.9	16. 6 22. 1	36. 3 16. 4 23. 8		37. 1 21. 3 26. 3	40. 0 20. 9 26. 7	37. 9 20. 5 27. 5	20. 8 15. 0 25. 4	18. 8 22. 8	34. 3 19. 4 23. 9	30. 3 31. 6 18. 4 23. 9 31. 3
5. 9 8. 7 3. 5	8. 4 5. 4 5. 1 9. 0 10. 0	5. 1 5. 2 8. 8	5. 1 5. 1 9. 0	8. 3 4. 9 6. 5 8. 4 9. 6	7. 2 8. 3	8. 4 4. 7 7. 2 8. 3 9. 4	3. 0 2. 5	4. 2	4. 4 4. 3 7. 9	8. 4 4. 3 4. 2 7. 9 8. 9	5. 5 3. 8 6. 7	5. 0 4. 1 6. 7	5. 1 4. 1 6. 5	6. 0 3. 7 2. 3	6. 0	3. 4 9. 3	5.8 3.4 9.3
9. 2	24. 9 23. 6 10. 8 10. 7 3. 0	22. 7 11. 2 10. 2	22. 9 10. 9 10. 3	23. 9 10. 2 11. 8	23. 1 10. 1 10. 8	23. 1 10. 2 10. 4	9. 3	11.3	20.8 9.7 10.1		21. 3 9. 6 10. 4	20. 8 10. 1 10. 6	20. 4	5. 6	20. 3	7. 0 10. 9	19. 6 7. 2 10. 9
000000 00000 00000	6. 9 10. 8 14. 3 19. 2 21. 4	8. 2 14. 5 18. 6	8. 5 14. 0 18. 7	7. 6 9. 8 11. 9 19. 1 20. 8	7. 2 12. 4 19. 2	7.8 12.2		6. 3 8. 5 11. 4 15. 2 16. 2	5. 6 10. 8	10. 7 15. 3	6. 4 17. 5 15. 3	6. 9 16. 5 15. 2	8. 8 16. 7 15. 4		14. 5	6.7	6. 2 10. 7 14. 4
5, 1 58, 6 33, 0	12. 6 10. 5 68. 8 43. 3	10. 4 70. 1	70. 3	57.9	9.8 58.6	9. 4 58. 6		10.3 61.7	13. 8 10. 1 64. 6 37. 8	9. 6 64. 6	80.0	83. 3	13. 5 12. 2 85. 0 49. 4	5. 0 50. 0	10. 0 71. 5	10.8 10.0 71.6 34.9	9.3 71.6
*****	20. 0 16. 3 48. 2 56. 0	14. 9 50. 5	15. 0 48. 0		14. 9 36. 7	37.2		16. 2 46. 3	16. 4 14. 2 49. 0 48. 8	14. 1 47. 3	21. 6 2 15. 4	18. 9 2 16. 6			16. 9 36. 9	17. 8 -15. 2 41. 9 30. 5	15.0 41.4
1 Por	Dollar	1				,											

¹ Per pound.

MONTHLY LABOR REVIEW

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL

	right bala at an expens	610	Chica	go, Il	los	Ci	ncinn	ati, O	hio	CI	evela	nd, o	hio
Article	Unit	Apr.	15—	Mar.	Apr.	Apr.	15—		Apr.	Apr	. 15—	Mar.	Apr.
The Employ of Missag	head Braze et	1913	1923	1924	15, 1924	1913	1923	15, 1924	15, 1924	1913	1923	1 15.	15, 1924
Sirloin steak Round steak Chuck roast Plate beef	do	19. 0 19. 7 15. 4 11. 4	19. 5 11. 9	12.4	21. 7	18. 4	18 1	19 0	17 8	17 9	10. 2	25. 4	26.1
Pork chops	do do do do	19. 5 31. 4 32. 5 20. 7 21. 1	24. 7 44. 8 47. 4 34. 4 35. 4	26. 0 41. 4 46. 1 36. 3 34. 6	41. 4 46. 6 38. 3	28, 2 18, 6	33. 0 46. 0 34. 7	28. 8 45. 1 33. 3	29. 1 45. 4 36. 9	27. 0 36. 0	28. 0 39. 5 46. 4 34. 1 38. 1	36. 8 48. 0	30.1 5 37.1 0 48.7 2 37.6 5 37.9
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart 15-16 oz.can_ Pound	8. 0 39. 0	31. 4 13. 0 11. 2 54. 3 25. 5	32. 5 14. 0 11. 5 55. 8 26. 9	32, 7 14, 0 11, 1 46, 8 26, 4	8. 0 41. 6	28. 0 12. 0 11. 5 55. 0 29. 7	27. 6 14. 0 11. 4 57. 5 31. 5	28. 0 14. 0 11. 1 48. 9 30. 5	8, 3 42, 0	29. 3 14. 0 11. 8 58. 4 29. 0	29. 3 14. 0 11. 4 58. 3 31. 8	3 29.1 14.0 11.2 3 48.4 3 31.4
Nut margarineCheeseLard. Vegetable lard substitute Eggs, strictly fresh	do	25. 3 14. 9	24. 4 40. 4 16. 7 23. 3 36. 7	25, 8 40, 1 17, 7 25, 1 35, 9	25. 1 39. 0 17. 8 25. 1 33. 7	21, 6	28. 2 36. 0 16. 0	29. 1 35. 6 15. 4	28. 5 34. 0 15. 2	23, 0	27. 3 37. 1 18. 3	30. 6 36. 8	30, 2
Bread				9.7 4.1 5.4 8.5	9.7 4.1 5.3 8.5	3.3	4. 5 2. 9 8. 7	4. 5 3. 6 8. 3	4. 5 3. 6 8. 3	5. 5 3. 1 2. 7	4.8	4. 5 4. 2 8. 9	4.5
Wheat cereal	28-oz. pkg Pounddodododo	9. 0	23. 7 18. 0 10. 2 11. 6 2. 2	23. 4 18. 1 10. 3 10. 0 2. 6	23. 3 18. 0 10. 4 10. 0 2. 6	8.8	23, 2 16, 4 8, 7 10, 8 2, 3	23. 1 16. 7 10. 0 8. 0 2. 5	10.0	8, 5	19. 5	20. (1 8.5
Onious Cabbage Beans, baked Corn, canned Peas, canned	No. 2 can do do do		6. 4 8. 8 12. 9 14. 7 16. 1	5. 9 6. 6 12. 6 15. 2 17. 3					5. 2 6. 8 11. 6 14. 1 17. 9		6. 4 9. 9 12. 9 15. 3 16. 7	5. 7. 6 12. 6 16. 4 17. 6	7.5 12.6
Fomatoes, canned Sugar, granulated Fea	Pounddododo	5, 0 53, 3 30, 7	13. 6 10. 0 70. 2	14. 1 10. 0 72. 9 41. 1	14. 1 9. 4	5, 0 60, 0	12. 4 10. 4	12. 8 10. 1 74. 5	12.8 9.8 74.5	5. 2	13. 7 10. 8 68. 7	13. 8 10. 8 67.	67.1
Prunes Raisins Bananas Oranges	Dozen		18. 5 38. 0	18, 7 16, 5 46, 1 37, 8	16. 4 45. 0		18. 5	15. 8 45. 0	15. 5 35. 0		17. 3 48. 5	15. 4 50.	7 49.1

¹The steak for which prices are here quoted is called "rump" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

Colu	mbus,	Ohio	1 1	Dallas	, Tex		I	enve	r, Col	o.	.D	etroit	, Mic	h.	Fal	l Rive	er, M	ass.
Ye France	Mar.	Apr.	Apr.	15—	Mar.	ADT.	Apr.	15—	Mar.	Apr.	Apr.	15-	Mar.	Apr.	Apr.	15-	Mar.	Apr
15, 1923	1924	15, 1924	1913	1923	15, 1924	15, 1924	1913	1923	1924	15, 1924	1913	1923	LO	15, 1924	1913		15, 1924	15, 1924
29. 3 25. 4	37. 3 31. 7 28. 6 22. 2	37. 7 31. 8 27. 7 22. 0	Cts. 22. 5 20. 3 19. 6 16. 7 12. 9	34. 5 31. 0 26. 5 21. 3	34. 1 29. 8 27. 0 -20. 7	35. 0 30. 8 27. 0 21. 1	23. 1 20. 3 17. 4 15. 3	29. 4 24. 8 21. 3 16. 4	28. 9 24. 5 21. 5 17. 3	Cts. 31, 1 25, 9 22, 2 17, 2 10, 0	19. 4 19. 2	18. 7	29. 7 26. 8 19. 8	38. 5 30. 4 27. 4	134.5 27.0 23.2 18.5	41.7	156. 4 42. 1 28. 0 21. 2	42. 27.
96 7	24. 7 37. 2 45. 3 42. 5 34. 6	38.1	20. 8 38. 0 31. 3 22. 5 19. 5	38 6	338 51	28 5	20 0	42 2	40 2	26. 3 40. 0 46. 4 35. 8 30. 6	99 81	20 2	95 7	95 9	05 0	90 7	02 4	45. 41.
11.8	11.8	11. 7	10. 0 37. 0	13. 7	14. 1	14. 1		11. 7	12, 11	11. 4 45. 6	8. 0 37. 9	08.0	58. U	30. 0 14. 0 11. 3 48. 3 29. 9	41. 3	08. 2	31.3 13.0 13.5 59.0 61.3	49.
26. 7 34. 9 15. 0 22. 9 28. 0	36. 2 15. 6	14. 9 25. 0	20. 0 18. 0 21. 0	34.7 20.8 21.2	32.6 36.1 21.7 21.4 27.3	33. 3 20. 5 20. 9	26. 1 16. 3 24. 6	28. 5 37. 3 19. 1 21. 6 32. 2	29. 6 37. 8 17. 8 25. 0 30. 8	29. 6 37. 2 17. 9 25. 7 30. 1	20. 7 16. 0	36. 0 17. 6 22. 1	27. 8 37. 4 17. 8 25. 6 33. 1	36. 9 17. 4 25. 4	23. 8 15. 0	28. 3 38. 2 16. 9 23. 7 45. 1	38.6	30. 38. 16. 25. 37.
7.9 4.5 3.0 8.9 10.1	7.7 4.2 3.7 9.4 9.7	9.4	5. 6 3. 4 2. 6	8. 9 4. 6 3. 6 10. 6 10. 8	8. 7 4. 5 4. 5 10. 7 9. 8		5. 3 2. 6 2. 4	8. 2 3. 9 3. 2 9. 2 9. 9	7. 7 3. 6 3. 2 8. 9 9. 8	7. 7 3. 6 3. 2 8. 9 10. 0	3. 1	4.3	4. 2 4. 7 8. 9	8. 8 4. 2 4. 8 9. 0 9. 1	3. 2 3. 4	9. 1 5. 1 5. 7 9. 8 9. 9	8. 8 4. 9 7. 1 9. 6 10. 0	8. 4 4. 9 9. 0 10. 0
8.4	24. 6 18. 2 10. 3 8. 3 2. 5	24. 6 18. 2 10. 0 8. 4 2. 5	9.3	10. 4	25. 3 21. 5 11. 4 11. 4 4. 4	10.8	8.6	24. 6 21. 0 9. 7 12. 1 2. 0	24. 5 19. 9 9. 9 11. 2 2. 4		8. 4	18.8	19.0	24. 1 18. 3 10. 1 8. 3 1. 9	10.0	24.0	23. 6 10. 2 10. 2	
2.3	13. 4	7.4			7. 4 5. 6 14. 9 17. 2 21. 7	14. 91		14 2	4. 8 4. 6 14. 0 15. 1 16. 9	5. 5		8.3	7. 2 12. 1	6. 8 11. 8 16. 1		13, 1 15, 8	6. 6 82 12. 7 16. 2 18. 4	6. 2 8. 1 12. 9 16. 2 18. 6
2. 8 0. 5 5. 1 7. 6	13. 6 10. 4 79. 4 40. 2	13. 5 10. 1 78. 9 41. 1	5. 7 66. 7 36. 7	14. 3 11. 3 91. 8 43. 1	14. 4 11. 4 97. 6 46. 5	10. 9	5. 3	68. 1	68. 5	14. 1 10. 4 69. 6 40. 9	43. 3	64. 7	64.3	63.4	5. 2 44. 2 33. 0	13. 7 10. 6 60. 4 39. 4		13. 9 10. 0 59. 8 43. 1
0.3 7.8 8.6	19. 3 15. 8 39. 1	19. 5		23. 1	19. 5 16. 9 36. 4 46. 4	17.0		19. 0 12. 6	15. 3	17. 8 15. 2 14. 0 36. 5		33. 9	17. 7 15. 9 36. 8 44. 5	15. 4 37. 0		18. 2 2 10. 9	211.4	16. 7 2 10. 9

Per pound.

INCIPAL

ad, Ohio

Mar. Apr. 15, 15, 1924 1924

Cts. Cts. 35. 7 36. 9 29. 6 30. 8 25. 4 26. 1 29. 5 27. 6 37. 5 37. 9 29. 3 29. 1 14. 0 15. 15. 5 15.

er cities

MONTHLY LABOR REVIEW

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL

AR

K

300 PM PM PM		Hou	ston,	Tex.	Ind	ianap	olis, I	nd.	Jac	ksonv	ville,	Fla.
Article	Unit		Mar.		Apr.	15—	Mar.		Apr.	15-	Mar.	Apr
the same of the	1 101	15, 1923	15, 1924	15, 1924	1913	1923		15, 1924	1913	1923	15, 1924	15
Sirloin steak Round steak Rib roast Chuck roast Plate beef	do do	30. 2 24. 4 20. 4 16. 3	28. 9 28. 0	29.3	23.3	35. 0 33. 6	Cts. 35. 4 34. 2 26. 2 21. 9 13. 7	36.6	28. 3 24. 0	35. 0	37. 0	200
Pork chops Bacon, sliced Ham, sliced Lamb, leg of	do do	46. 2 47. 7 35. 0	41.8 45.4 32.5	33. D	29.8	1 4X /4	25. 3 32. 9 47. 5 39. 3 33. 3	47.5	22X D	44.2. 1	44.6	1 42 1
Salmon, canned, redMilk, freshMilk, evaporatedButterDleomargarine	Quart	30. 8 15. 8 12. 7 54. 7 32. 5	29. 2 15. 8 13. 0 56. 1 33. 3	IZ. D	8, 0 39, 3	1 1 1 7	36. 2 12. 0 11. 6 54. 1 30. 6	11. 4		12. 7	12 (19
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	do do do Dozen	28. 9 33. 5 19. 1 18. 7 27. 2	30. 2 33. 3 19. 9 17. 8 28. 3	29. 6 32. 0 19. 6 17. 6 25. 7	20. 8 15. 2 20. 0	26. 8 35. 5 14. 5 23. 1 28. 4	29. 6 35. 8 14. 3 25. 4 29. 2	29. 2 34. 2 14. 3 25. 4 24. 9	22. 5 15. 7 27. 5	27. 3 34. 1 18. 1 22. 0 33. 7	29. (34.) 18.) 23. ; 31. (9 28. 5 31. 1 18. 3 23. 0 31.
BreadCorn mealRolled oatsCorn flakes	Pounddo	7. 2 5. 0 3. 6	7. 0 4. 8 4. 2	7.0	1	8 5	8 5	8. 5 4. 3 3. 7 7. 3	6. 5	10. 2 5. 6 3. 3	2 10. 5, 3 3.	8 3. 1 9.
Wheat cereal		10.0	10. 0	24. 1 19. 2 8. 2	9. 2	24. 8 18. 5 10. 1	24. 2 18. 5 10. 8	24. 3 18. 5 10. 8 8. 6 2. 1	6. 6	24. 1 19. 6 8. 6 11. 9 3. 8	24. 3 19. 3 9. 11. 3 3.	8 24. 8 19. 0 9. 0 10. 9 3.
Onions Cabbage Beans, baked Corn, canned Peas, canned	No. 2 can do .	7. 8 5. 6 13. 5 14. 0 18. 7	5. 7 4. 1 12. 8 15. 2 18. 1	5. 5 4. 2 12. 9 15. 2 18. 6		6. 8 8. 6 13. 5 13. 4 15. 7	5. 4 6. 3 13. 1 13. 6 16. 2	6. 9 13. 1 13. 8		12.0 16.2	5. 12. 17.	3 5. 0 12 6 17.
Comatoes, canned	Pounddodododo	12. 0 10. 2 69. 9 34. 2	12. 1 10. 0 74. 5 36. 3	9.7	60.0	76.0	10.6	10.3	5. 9	11. 4 10. 8 84. 7 39. 5	10.	0 10. 8 10. 0 91. 0 42
Prunes			13. 1 16. 0 31. 8 38. 8	18. 2 15. 9 29. 0 39. 8		20. 8 18. 7 29. 7 50. 4	20. 0 17. 4 35. 7 36. 7	17. 0		19. 6	17.	3 18 8 17 3 29 0 26

¹The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

RETAIL PRICES OF FOOD

ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

RINCIPAL

ville, Fla.

Mar. Apr. 15, 15, 1924 1924

Cts. Cts. 37. 6 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 0 37. 5 32. 5 32. 5 32. 5 32. 5 32. 5 32. 5 32. 5 32. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 7 30. 0 30. 2 29. 0 28. 5 31. 1 12. 1 10

er cities

			Ī								1							
Kansas	City,	Mo.	Lit	tle R	ock, A	Ark.	Los	Ange	eles, (Calif.	L	ouisv	ille, E	y.	Mai	nchest	ter, N	. н.
Apr. 15-	Mar. 15,	Apr. 15,	Apr	. 15—	Mar.	Apr. 15,	Apr	. 15—	Mar. 15,	Apr. 15,	Apr.	. 15—	Mar.	Apr.	Apr.	15-	Mar.	
1913 192	1004		1913	1923	1924		1913	1923	1924	1924	1913	1923	15, 1924	15, 1924	1913	1923	15, 1924	15, 1924
Cts. Cts. 24. 4 36. 21. 2 30. 17. 9 25. 14. 8 17. 11. 9 10.	0 37.1 2 30.8 0 25.5 7 19.0	38. 1 31. 0 26. 1 19. 1	27. 5 21. 1 20. 0 16. 9	33. 3 30. 0	28. 0 25. 2 18. 1	34. 3 29. 3 26. 2 19. 1	23. 4 20. 8 19. 1 15. 5	34. 1	34. 8 28. 9 27. 9 19. 4	36. 3 29. 6 29. 7 20. 8	23. 6 20. 0 18. 6 15. 6	31, 2 27, 7 23, 1 17, 3	31.5 27.8 23.7	31. 5 27. 8 24. 1 18. 0	28. 5 20. 0	44. 6 26. 1	1 54.9 43.3 27.8 21.6	44. 7 28. 0 21. 9
20. 0 25. 28. 4 41. 28. 1 45. 20. 1 31. 18. 2 32.	1 38.8 8 45.0	38. 5 45. 3 35. 5	37. 0 31. 3 22. 5	38. 1	37. 1 44. 7 36. 3	36. 9 45. 0 40. 7	33. 8 35. 0 19. 0	49. 4 58. 4 33. 5	36, 5 46, 4 57, 1 36, 0 40, 7	46. 9 57. 4 37. 8	27. 8 27. 5 18. 1	33. 2 42. 1 36. 3	40.3	30. 4 40. 5 38. 0	23. 5 27. 3 21. 3	34. 1 40. 1 35. 8	31. 1 37. 4 37. 4	30. 4 37. 4 38. 4
39. 8 58.	3 13.3 6 12.2	13. 3 12. 1 49. 9	10. 0	13. 4 58. 5	15. 7	12. 6 51. 4	35. 0	10. 7 53. 6	57.8	36. 7 15. 7 10. 3 48. 8 35. 2	8.8	12. 0 12. 1 56. 6	29, 4 13, 0 12, 3 58, 7 31, 7	13. 0 12. 3	8. 0 42. 8		62.3	13. 0 13. 3
27. 21. 7 35. 16. 2 17. 23. 20. 9 31.	0 36. 7 6 17. 1 0 25. 9	35. 1 17. 0 25. 9	21. 7 15. 4 19. 5	19. 5 21. 7	35. 6 18. 7 20. 3	18. 6 20. 7	19. 5 17. 9	29, 4 35, 9 19, 5 22, 3 36, 4	24. 5		21. 7 15. 3	23. 1	33, 2 15, 0	15. 0 26. 8	22. 0 16. 0	17. 4 20. 2	37.6 17.2	36. 6 17. 0 23. 5
6.0 8. 3.0 4. 2.5 4. 8. 10.	5 4.3 5 4.6 4 9.0	4. 3 4. 6 9. 0	6. 0 3. 6 2. 4	8. 2 5. 4 3. 1 10. 6 9. 7	8. 1 5. 1 3. 5 9. 4 9. 6	5. 0 3. 5	3. 2	9. 0 4. 8 4. 3 9. 8 9. 6	9. 3 4. 5 4. 3 9. 6 9. 7	4.4		8. 4 5. 4 2. 9 8. 3 8. 9		8. 4 5. 0 3. 1 8. 3 9. 2	5. 9 3. 4 3. 6	8. 4 5. 2 4. 6 8. 8 9. 6	4. 8 8. 8	4.8 4.7 8.6
25. 21. 8.7 9. 11. 1.5 2.	6 9.3 7 9.9	21.9 9.3 9.7	8. 3	25. 1 20. 8 8. 1 12. 1 2. 7		8. 6. 9. 9	7.7	23, 3 15, 9 9, 6 10, 0 3, 1	10.2	15. 4 10. 2 9. 4	8.1	23. 7 16. 4 8. 1 10. 4 1. 9					24. 5 9. 3	9. 4 9. 6
7. 9. 14. 13. 15.	0 5.9 3 14.0	14. 0 14. 4		7. 7 9. 2 13. 3 15. 3 18. 3		6. 7 7. 0 12. 3 15. 4 18. 7		6. 6 4. 6 12. 9 16. 9 19. 0	12.8	5. 3 6. 6 12. 8 15. 2 17. 0		8. 4 11. 5 13. 5	11.5	5. 4 7. 2 11. 5 13. 9 16. 7		6. 8 8. 4 14. 9 17. 6	6.3	8.8 14.8 18.1
		10. 4 80. 2	5. 5	91.4	87. 7	87.4	54. 5	69.4	14.2 10.3 68.1 45.7	9. 9 68. 1 45. 9	5. 1 62. 5	10. 5 71. 4		10. 2 72. 8	5. 3 45. 0	10. 9 57. 7	3 20.4 10. 6 58. 9 43. 2	9. 7 58. 9
20.	0 17.8 3 16.8 0 13.6 0 43.7	16.8		20.7 410.3	17. 6 18. 5 411. 5 40. 2	18. 2		17.8 411.7	17. 9 14. 9 12. 2 32. 8	14.6 411.2		18. 2	17. 8 14. 9 41. 7 31. 5	14. 7 38. 3	00000 00000 00000 00000	17.4	16. 6 14. 9 443. 3 35. 5	14.6

1 No. 21 can.

No. 3 can.

4 Per pound.

MONTHLY LABOR REVIEW

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL

AL PROPERTY NO.	er spiroting	Me	mphi	s, Ter	m.	Mi	lwaul	ree, W	71s.	Min	neapo	lis, M	inn,
Article	Unit	Apr.	15—	Mar.	Apr.	Apr.	15—	Mar.	Apr.	Apr.	15—	Mar.	Apr.
with the average is		1913	1923	15, 1924		1913	1923	15, 1924	15, 1924	1913	1923	15, 1924	15
Sirloin steak Round steak Rib roast Chuck roast Plate beef	do dodo	19. 4 21. 9 15. 1 12. 2	28. 1 23. 8 18. 2 13. 7	27. 9 23. 4 18. 1 13. 8	28. 6 23. 8 17. 8 13. 5	19. 5 18. 0 15. 8 11. 5	31. 0 26. 9 21. 0 12. 0	32. 0 27. 6 22. 4 12. 9	32. 1 27. 5 22. 7 12. 7	19. 5 18. 2 15. 5 10. 1	26. 1 24. 4 19. 2 9. 6	29, 5 25, 8 23, 8 19, 0 10, 5	31.2 27.9 25.1 19.8 10.8
Pork chops	do dododododo	22. 1 30. 7 27. 1 21. 2 21. 6	23. 8 38. 4 43. 5 36. 4 29. 5	22. 0 33. 8 42. 1 34. 4 29. 2	23. 5 32. 7 43. 8 38. 7 29. 5	19. 5 26. 8 26. 8 20. 0 22. 3	26. 5 40. 6 43. 6 36. 1 36. 6	25. 5 37. 2 42. 5 37. 2 34. 7	26. 5 36. 9 43. 3 39. 1 35. 8	18. 3 25. 0 27. 5 17. 2 21. 0	26. 6 41. 4 45. 9 33. 7 32. 9	25.3 38.1 42.5 36.1 32.0	27.3 37.7 44.1 36.1 33.4
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart 15-16 oz.can Pound do	10. 0	36. 3 15. 0 12. 5 56. 5 28. 3	35. 1 14. 7 13. 0 57. 2 29. 5	35, 0 14, 7 12, 3 49, 5 29, 5	7. 0	33. 5 10. 0 11. 7 53. 6 26. 7	34. 1 11. 0 11. 5 53. 9 28. 2	34. 3 11. 0 11. 4 45. 6 27. 5	7. 0	36. 6 11. 0 12. 5 52. 0 27. 5	36. 9 12. 0 12. 7 53. 7 28. 8	37.5 10.0 12.1 44.2 28.5
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	do	21.3	25. 0 33. 2 16. 5	24. 6 33. 2 15. 7	24. 4 29. 0 15. 3	21.7	25. 6 34. 2 17. 7	27. 7 35. 3 18. 3	26. 6 33. 4 17. 9	20. 0	26. 1 35. 0 17. 0	26.7 35.4	26.6 33.2
Bread	Pounddodododo	6. 0 3. 6 2. 0	9. 0 5. 6 3. 0 9. 3 9. 6	5. 2 3. 6 9. 4	5. 3 3. 6 9. 2	5. 6 3. 1 3. 3	4. 2 3. 9 7. 0	4. 1 4. 4 7. 7	4. 2 4. 5 7. 8	5. 6 2. 9 2. 4	4. 6 4. 0 8. 8	4.3	4.4.5
Wheat cereal				24. 9 18. 7 8. 8 9. 7 3. 1	24. 9 18. 4 8. 8 9. 7 3. 2	9. 0	24. 4 17. 5 9. 9 11. 6 1. 7	23. 9 17. 9 10. 5 9. 5 2. 2	M. Z	9. 1	12. 2	19 19 1	3 17. 9 9. 5 9.
Onions	do		6.2	8.7	5.0		7. 0 9. 3 11. 6 15. 4 15. 3	6. 1 6. 5 12. 0 15. 8 16. 5	5. 5 6. 7 11. 9 15. 9 16. 6		5. 5 8. 9 14. 3 13. 5 15. 9	6. 5. 13. 13. 16.	6. 6. 9 13. 9 13. 5 16.
Tomatoes, cannedSugar, granulatedTeaCoffee	Pounddododododododo	5. 3 63. 8 27. 5	13. 2 10. 8 84. 5 37. 2	12. 8 10. 7 83. 8 42. 1	12.8 10.3 83.3 41.9	5. 3 50. 0 27. 5	13. 8 10. 1 70. 1 35. 3	14. 0 10. 2 71. 4 37. 7	14. 0 9. 9 71. 2 38. 7	5. 6 45. 0 30. 8	14. 9 10. 7 65. 0 41. 9	14. 10. 65. 44.	7 14. 5 10. 3 65. 7 45.
Prunes	Dozendo		20. 1 19. 0 33. 9 49. 6	18. 3 16. 9 36. 7 36. 9	17. 5 16. 9 36. 1 35. 1	*****	20. 3 17. 7 3 10.1 51. 0	18. 7 15. 2 3 13.0 38. 3	17. 9 15. 5 3 9. 9 42. 2	*****	21. 8 18. 6 3 12.5 50. 4	18. 16. 3 14. 40.	7 18. 1 15. 2 3 11. 2 43.

1 Whole.

³ No. 3 can. ³ Per pound.

ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

RINCIPAL

oolis, Minn.

Mar. Apr. 15, 15, 1924 1924

Mo	bile,	Ala.	N	Vewar	k, N.	J.	Nev	v Hav	ven, C	onn.	Ne	w Orl	leans,	La.	N	ew Y	ork, N.	Υ.
	Mar.	Apr.	Apr.	. 15—	Mar.	Apr.	Apr.	15-	Mar.	Apr.	Apr.	. 15—	Mar.		Apr.	15-	Mar.	Apr.
15, 1923	15, 1924	15, 1924	1913	1923	15, 1924	15, 1924	1913	1923	15, 1924	15, 1924	1913	1923	15, 1924	15, 1924	1913	1923	15, 1924	15, 1924
20.6		31. 3 25. 0 20. 6	26. 6 26. 4 21. 2 17. 6	42. 4 38. 9 33. 5 20. 5	42.1	35. 3	28. 0	Cts. 47. 8 38. 9 33. 6 24. 5 14. 4	41. 7 34. 4 24. 4	34. 9 25. 4	22. 1 19. 3 20. 9 15. 4	28, 8	29. 5 30. 0 21. 6	29.8 29.6 21.4	25. 1 22. 6 16. 6	38. 7 35. 1 21. 8	35. 8 22. 8	23.
43. 8 35. 0	36. 6 40. 7	35. 3 40. 7 36. 0	23. 8 1 20.3 22. 0	36. 8 1 26.8 36. 7	37.5 1 26.2 38.3	37. 7 126. 2 39. 4	27. 0 31. 4	40. 6 51. 3 36. 6	37. 4 49. 9 38. 0	37. 0 49. 9 39. 5	29. 1 27. 6 22. 0	39. 7 40. 6 38. 9		37. 2 40. 6 41. 9	24. 9 28. 5 19. 0	38. 1 49. 0 35. 0	34. 7 47. 8 36. 3	38.
13. 0 51. 2	20. 0 12. 8	20. 0 12. 1 56. 2	42. 2	11.9	15. 5 11. 9 59. 2	15. 5 11. 5 50. 5	9. 0	12.4	15. 0 12. 3 58. 7	15, 0 12, 3 50, 6	10. 0	37. 8 14. 0 11. 9 57. 5 30. 0	15. 0	15. 0 11. 3 50. 7	9. 0	11.8	14. 0 11. 7 56. 1	14. 11. 48.
	29. 0 35. 6 17. 1 19. 5 27. 6	33. 3 16. 8 19. 9	24. 5 15. 8	17.3 22.4	41. 2 18. 3 24. 9	41. 5 17. 3 25. 0	22. 0 15. 7	22. 3	37. 2 17. 7	17. 4 23. 9	22. 0 14. 8	16. 8 22. 8	35. 0 16. 5 21. 2	32. 4 16. 3 20. 9	19. 6 15. 9	17.8 23.0	18. 3 25. 7	17. 25.
9. 0 5. 5 3. 3 9. 1 9. 3	8.8 5.1 3.7 8.4 9.3	8. 8 5. 0 3. 6 8. 5 9. 3	3. 6	4.7	8. 6 4. 6 6. 4 8. 1 8. 9	8. 6 4. 6 6. 4 8. 3 8. 9	3. 1 2. 9	4. 7	8. 3 4. 6 6. 2 9. 0 9. 6				3. 7 8. 6	7. 7 5. 4 3. 7 8. 6 9. 4	3. 2	-4.9	4.7 5.6 8.5	4. 5. 8.
3.5 0.1 8.3 2.4 2.9	23, 5 19, 4 8, 6 10, 2 3, 1	19.6	9, 0	21.4	20. 9 9. 8 9. 9	20. 9 9. 7	9. 3	11.4	22. 5 10. 4 9. 8	22. 7 10. 2 9. 8	7. 4	9.0	9. 6 9. 2 9. 3	9. 6 9. 3 9. 2		11.6	20. 4 9. 5 11. 2	20, 9, 10.
5.3	5. 4 5. 5 12. 1 15. 3 16. 1	5. 7 11. 9 15. 3		7. 2 10. 0 10. 7 14. 4 16. 6	8. 2 11. 3 15. 1	8. 5 11. 3 15. 3		17.9	7. 4 11. 9 18. 0	8.9 11.9 18.0		6. 5 4. 8 13. 1 13. 7 17. 3	4. 6 12. 4 13. 7	12. 2 13. 2	*****	6. 3 8. 4 11. 5 15. 3 16. 5	6. 4 11. 9 15. 6	7. 11. 15.
1.0	10. 4 74. 9	76.3	5. 1	10, 1 54, 6	58. 3	9. 5 57. 7	5. 2 55. 0 33. 8	21.8 10.2 58.0 40.5	10. 2 57. 7	9. 9 59. 2	5. 2 62. 1 26. 4	70. 1	11. 6 9. 6 70. 9 35. 4	9. 0 70. 7	4. 9	54. 2	9. 6 59. 4	59.
8.3 7.1	29.4	16. 4	****	15. 9 37. 9	16. 3 15. 3 38. 0 37. 7	36. 5		16. 9 33. 2	16. 6 15. 4 33. 8 38. 2	15. 4 34. 1		20, 0	18. 2 15. 4 22. 0 38. 2	15. 3 19. 0	##0	17. 8 15. 9 42. 5 61. 0	15. 7 42. 2	15. 41.

MONTHLY LABOR REVIEW

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL

To distribute	i anato is	No	rfolk, V	Va.	(Dmaha	, Nebr		Pe	eoria, I	11.
Article	Unit	Apr.	Mar.	Apr.	Apr.	15—	Mar.	Apr.	Apr.	Mar.	Apr.
the see of the	101	15, 1923	15, 1924	15, 1924	1913	1923	15, 1924	15, 1924	15, 1923	15, 1924	15, 1924
Sirloin steak Round steak Rib roast Chuck roast Plate beef	dodo	30. 8	Cts. 40. 9 34. 2 33. 5 21. 3 14. 7	Cts. 40. 9 34. 4 33. 1 21. 8 15. 2	Cts. 24. 7 20. 8 17. 1 15. 4 10. 4	Cts. 34. 3 30. 9 25. 1 19. 1 10. 4	Cts. 35. 6. 31. 4 25. 5 20. 1 10. 5	Cts. 35. 9 31. 9 26. 5 20. 1 10. 4	29. 6 23. 0 19. 0	29. 8 23. 1 19. 9	30.5 23.6 20.1
Pork chops	do	36. 0 38. 5 38. 5 37. 5	25. 5 31. 6 37. 0 39. 4 35. 3	26. 7 31. 5 37. 0 40. 9 35. 3	29. 0 17. 5	49. 4	45. 9 36. 7	27. 4 40. 9 46. 9 40. 3 31. 3	45. 4 34. 4	44.3 34.6	40. (44. (35. (
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart	29. 5 17. 0 11. 3 57. 3 28. 3	28. 7 17. 0 11. 6 61. 3 31. 7	28. 9 17. 0 10. 9 53. 1 30. 0	8. 2	33. 6 11. 0 12. 3 54. 4 29. 1	32. 9 12. 2 12. 1 54. 0 29. 2	32. 8 12. 2 12. 1 45. 5 28. 9	53. 4	12. 2 12. 0 53. 6	12.0 11.8 46.5
Nut margarine	do	27. 2 32. 3 16. 5 17. 2 31. 3	27. 0 32. 7 15. 9 19. 4 35. 8	27. 2 31. 4 15. 5 19. 4 27. 6	22. 5 17. 3 20. 5	27. 8 36. 0 18. 9 23. 5 29. 9	28. 6 35. 2 19. 2 26. 2 28. 3	28. 8 33. 7 19. 0 26. 0 25. 7	27. 2 37. 5 17. 2 24. 2 28. 4	26. 3	34. 17. 26.
BreadFlourCorn mealRolled oatsCorn flakes	dododo8-oz. pkg	4. 8 3. 5 8. 1 9. 6	7. 9 4. 4 4. 0 8. 0 9. 0	7. 9 4. 5 4. 1 8. 0 9. 2	5. 2 2. 9 2. 3	9. 8 4. 3 3. 5 9. 9 10. 2	9. 6 3. 9 4. 0 10. 6 9. 7	9. 6 3. 8 4. 1 10. 2 9. 7	8. 0 4. 7 3. 7 9. 2 10. 1	8. 6 4. 6 4. 0 9. 0 9. 9	4.
W heat cereal	do	9. 6	23. 3 19. 6 10. 0 9. 5 3. 0	23. 4 19. 8 10. 0 9. 2 2. 8	8. 5	23. 9 20. 7 8. 6 12. 2 1. 8	24. 4 20. 2 9. 3 10. 1 2, 5	24. 4 20. 2 8. 8 9. 9 2. 4	26. 1 19. 5 9. 4 12. 5 2. 0	25. 2 19. 2 9. 8 9. 1 2. 3	19. 9. 9.
Onions Cabbage Beans, baked Corn, canned Peas, canned	No. 2 candodo	7. 0 7. 5 10. 3 15. 3 18. 3	6. 4 6. 4 10. 1 16. 1 19. 0	9. 9 16. 0		6. 3 9. 1 15. 3 15. 9 16. 9	6. 2 5. 9 14. 6 16. 6 16. 5	6. 0 6. 2 14. 4 16. 5 16. 2	7. 6 9. 8 13. 3 14. 6 17. 1	7. 0 6. 0 12. 9 13. 8 17. 6	6. 12. 14.
Comatoes, canned	do	11. 9 9. 9 78. 3 37. 6	11. 3 9. 8 81. 5 37. 5	11. 5 9. 2 81. 5 39. 4	5. 8 56. 0 30. 0	13. 9 10. 8 74. 2 41. 2	14. 1 10. 5 76. 9 44. 1	13. 9 10. 1 76. 9 44. 4	14. 2 11. 4 61. 4 37. 7	14. 1 10. 9 62. 5 39. 6	62.
Prunes	Dozen	18. 7 17. 5 34. 6 46. 8	16. 2 15. 5 36. 1 34. 5	15. 5 15. 3 33. 9 35. 9		20. 4 19. 9 4 12. 3 50. 3	18. 6 17. 6 13. 7 37. 6	17. 4 17. 5 4 11. 6 37. 1	21. 4 19. 6 4 10. 8 52. 2	21. 2 16. 6 4 13. 3 40. 1	16. 4 10.

¹ The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

INCIPAL

ria, III.

far. Apr. 15, 15, 924 1924

her cities

Ph	ladel	phia,	Pa.	Pit	tsbu	rgh, P	a.	Port	land,	Me.	Po	rtlan	d, Ore	g.	Pr	ovice	nce, R.	Ι.
Apr.	15-	Mar.		Apr.	15—	Mar.	Apr.	Apr.	Mar. 15,	Apr. 15,	Apr.	15-	Mar.	Apr. 15,	Apr.	15-	Mar. 15,	Apr. 15,
1913	1923	15, 1924	15, 1924	1913	1923	15, 1924	15, 1924	15, 1923		1924	1913	1923	1924		1913	1923	1924	1924
30.0 25. 2	36. 9 31. 4 18. 8	20. 9	39. 4 33. 8 22. 0	23. 2 21. 5 16. 7	35. 1 30. 4 21. 0	32. 3	44. 3 35. 8 32. 6 22. 5	1 56.1 43.9 27.8 18.2	43.8 29.4 19.6	1 57.7 45.9 30.3	22. 4 20. 0 18. 7 15. 6	28. 4 24. 7 23. 6 17. 0	29. 1 25. 7 24. 8	29. 3 26. 0 24. 9 17. 5	1 40.0 31, 2 25, 0 19, 4	45.5	37. 0 27. 1	47. 7 37. 8 27. 8
22, 4 25, 4 30, 7 20, 8	30. 0 36. 2 50. 7	34. 5 47. 3 38. 4	34. 1 47. 9 39. 5	29.8 22.0	40, 1 53, 3 38, 5	29. 4 39. 8 51. 4 39. 2 42. 1	39. 7 52. 6 40. 0	37. 6 46. 6 35. 5	35.8	35, 8 45, 9 40, 2	30. 0 29. 7 19. 2	43. 9 47. 2 34. 1	40. 7 46. 2	40, 8 45, 5 34, 9	22. 4 28. 5 21. 7	36, 4 53, 1	51. 6 41. 8	34, 7 52, 3 43, 1
8. 0	26. 6 12. 0 12. 4 61. 2	26. 1 12. 0 12. 1 62. 2	12. 0 12. 0 54. 4	8. 8 42. 6	14.0	1 1 J N	14. 0 11. 5 50. 5	13. 5 13. 4 63. 0	14. 0 13. 6 62. 3	14. 0 12. 8 55. 7	9. 3	12.0	11.8 11.0 55.6	11. 0 45. 7	9. 0	12, 7	13. 0 12. 4 58. 9	12. 0 12. 4 50. 3
4 8 13	38. 6	16 0	37. 1	24, 5 15, 4 24, 1	15 7	39.0	1 16 2	39.3	38. 4	37.6	20. 5	19.9	37.9	37. 8 19. 3 27. 6	22. 3 15. 2	17. 0 23. 1	36. 4 17. 3 25. 5	36. 2 3 17. 1 5 25. 5
4.83.12.7	4.7	4. 6	4.7	3.1	4. 6	4. 4	4. 3 4. 6 8. 8	4. 8	4. 5 4. 7 6. 9	4.4	2. 9	4. 7 3. 6 9. 8	4.0	4. 0 4. 2 9. 3	3.4	5. 2	5. 0 4. 3 9. 3	5. 1 3 4. 4 3 9. 3
9.8	21. 0 10. 5 11. 6	20. 5 10. 7 9. 9	20. 3 10. 3 10. 2		21. 5 9. 6 11. 6		20. 8 10. 1 9. 3	23. 8 10. 7 11. 3	23. 7 10. 6 10. 1	24. 0 3 10. 8 9. 8	8.6	18. 9. 1 10. 0	9.8	18. 1 10. 1 9. 8	9.8	22.1	0 23. 5 9. 2 10.	4 23, 5 9, 6 2 9, 6
	11. 3	7. 0 11. 2 15. 0	8. 6 3 11. 4 0 14. 9		8. 7 12. 5 14. 8		12.6	5. 6 16. 6 16. 3	5. 1 15. 2 16. 8	1 6. 4 2 15. 8 3 16. 8		16. 17.	6. 4	8. 9 14. 9 19. 0	3	9. 12. 17.	4 7. 4 12. 2 17.	1 7. 1 12. 4 17.
4. 9 54. 0 25. 0	9. 9 58. 6	3 11. 8 9. 8 60. 4 34. 1	9.		10.	4 75 5	10.0	10.8	1 10.3	9.9	6. 1	1 10.	4 3 16.7 5 10.8 6 71.1 1 43.2	10.	5. 0	13. 0 10. 3 61. 0 41.	4 10. 4 58.	3 9. 4 58.
	16. 9 32. 3	15. 3 9 15. 3 3 33. 3 5 37. 2	7 15. 4 0 15. 6 7 32.	1	20. 8 18. 3 42.	18 0	19. 3 7 14. 5 42. 8	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	16. 3 2 14. 3 2 4 12.	5 15. 7 1 13. 9 1 10.0	8	13. 18. 4 15.	7 10. 3 2 14. 3 8 4 16. 4 9 36. 3	10. 14. 4 16.	3	19.	7 15. 5 34.	1 15. 5 31.

³ No. 3 can.

1 No. 21 can.

4 Per pound.

MONTHLY LABOR REVIEW

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL

TLE prominent and	-hannya ?	Ri	ichmo	ond, V	a.	Roch	ester,	N.Y.	S	t. Lou	iis, M	0,
Atticle	Unit	Apr.	15—				Mar.		Apr.	15—	Mar.	Apr.
PURE PURE PART PROPERTY	A mil per	1913	1923	15, 1 924	15, 1924	15, 1923	15, 1924	15, 1924	1913		15, 1924	15
Sirloin steak	dododododododododo	19. 6 18. 9 15. 3 12. 9	10.7	38. 7 35. 1 30. 3 21. 9 15. 6	35, 1 30, 9 22, 1 15, 6	31. 2 27. 5 21. 9 11. 7	39. 2 32. 9 29. 0 22. 8 12. 1	32. 8 29. 2 22. 9 12. 1	23. 4 21. 4 19. 1 14. 7 10. 9	31. 6 26. 7 17. 7 12. 7	35. 0 32. 5 28. 2 19. 1 13. 1	32.6 28.6 19.1
Pork chops	do	21. 2 24. 4 25. 7 19. 7 22. 1	28. 2 34. 5 38. 3 42. 0 37. 8	27. 3 30. 5 36. 8 43. 6 35. 8	27. 9 30. 5 36. 7 45. 0 34. 8	30. 4 34. 8 43. 3 37. 6 41. 3	28. 2 32. 8 43. 8 36. 6 39. 9	30, 2 32, 8 44, 4 38, 5 39, 8	18. 8 24. 3 25. 7 17. 3 19. 1	23. 7 38. 0 43. 5 35. 4 32. 5	23. 5 35. 3 42. 6 35. 4 32. 5	43.5 37.5
salmon, canned, red	Quart 15-16 oz. can. Pound	10. 0	30. 0 14. 0 13. 2 64. 6 29. 6	31. 6 14. 0 13. 6 65. 9	32. 5 14. 0 13. 4 57. 2 20. 6	29. 2 13. 0 12. 1 58. 8 29. 8	29. 0 12. 5 12. 1 55. 9 31. 2	28. 9 12. 5 11. 9 52. 6 31. 1	8. 0	31. 5 13. 0 11. 2 57. 9 26. 9	32. 4 13. 0 11. 1 59. 3 27. 9	32. 13. 10. 3 50. 27.
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	do	22. 3 15. 0 21. 4	27. 9 36. 3 17. 8 23. 1 31. 9	29. 6 36. 5 17. 1 24. 6 32. 9	29. 6 34. 7 17. 1 24. 6 28. 8	27.1	28. 7	28. 5	19. 3 13. 8	24. 6	25. 2	25.
Bread Flour Corn meal Rolled oats Corn flakes	Pounddodododododo	5. 3 3. 3 2. 0	9. 2 4. 9 4. 2 9. 3 9. 6	8. 6 4. 5 4. 5 9. 1 9. 6	8. 6 4. 6 4. 5 9. 1	4. 9 4. 7 8. 7	4.5	4. 6 4. 9 8. 4	2.9	3.3	4. 3. 8. 8. 4	2 4. 8 3. 4 8.
Wheat cereal	28-oz. pkg Pounddodododo	9. 8	26. 2 21. 8 11. 1 12. 3 2. 9	25. 3 20. 7 11. 3 10. 8 3. 4	25. 3 20. 6 11. 3 10. 4 3. 2	23. 9 18. 9 9. 5 11. 1 2. 2	24. 0 18. 3 10. 0 10. 0 2. 1	24. 0 18. 3 10. 3 9. 6 2. 1	8. 3	23. 5 19. 7 8. 7 11. 3 2. 5	20. 9. 8.	2 9. 9 8.
Onions Cabbage Beans, baked Corn, canned Peas, canned	do do do do		6. 2 9. 3 11. 8 15. 8	6.8 7.5 11.6 14.7 20.1	7. 0 7. 0 11. 2 15. 0 20. 3	6. 1 7. 6 11. 4 16. 6	5. 7 5. 8 11. 2 16. 0 19. 3	6. 1 7. 4 11. 2 16. 2 19. 3		6.8 8.1 11.3 15.0	4. 11. 15.	5 5. 8 5. 3 11. 4 15. 4 17.
Tomatoes, canned Sugar, granulated Coffee Coffee	Pounddo	5. 1 56. 0 26. 8	12. 1 10. 7 79. 5 38. 5	11. 8 10. 4 83. 2 39. 5	11. 8 9. 9 81. 8 39. 5	12. 9 10. 1 62. 7 36. 3	13. 4 9. 9 63. 6 36. 6	13. 4 9. 5 63. 6 37. 1	4. 9 55. 0 24. 3	11. 8 10. 4 67. 0 36. 0	12. 10. 70. 39.	4 10. 7 69.
Prunes Raisins Bananas Oranges	Dozendo		22. 8 18. 3 39. 2 48. 5	19. 6 15. 0 40. 0 35. 4	18. 9 15. 0 40. 4 34. 6	19. 9 16. 9 43. 2 51. 4	19. 0 14. 3 44. 0 39. 3	18. 4 14. 2 44. 0 43. 2		20. 8 17. 2 29. 0 48. 8	20. 15. 34. 40.	6 15. 4 30.

¹ No. 21 can.

ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

St. I	aul, M	linn.	Salt	Lake	City,	Utah	San	Franc	isco, (Dalif.	Sava	nnah	, Ga.	S	erente	n, Pa	l.
Apr.	Mar.	Apr.	Apr.	15—	Mar.	Apr. 15,	Apr.	. 15—		Apr.		Mar.		Apr.	1/-	Mar.	Apr. 15,
15, 1923	15, 1924	15, 1924	1913	1923	15, 1924	1924	1913	1923	15, 1924	15, 1924	15, 1923	15, 1924	15, 1924	1913	1923	15, 1924	1924
Cts. 33. 4 26. 6 26. 7 19. 7 10. 8	Cts. 32, 9 26, 9 25, 8 19, 9 11, 1	27. 1 20. 6	20.0	Cls, 26, 0 23, 2 20, 8 16, 4 11, 8	24. 2 21. 0 17. 3	21, 6 17, 7	19. 0 21. 0	26. 7 28. 2 17. 5	31. 5 28. 9 30. 2 19. 7	29. 0 29. 9 19. 2	27. 7 25. 2 16. 8	25. 0 15. 8	25. 0 25. 0 16. 3	Cts. 24. 2 20. 8 20. 6 16. 6 11. 5	36. 9 34. 7 24. 1	39. 6 35. 9 26. 0	
25. 3 38. 5 43. 4 33. 3 30. 3	24, 4 35, 5 39, 9 33, 2 30, 5		22. 4 31. 7 28. 6 18. 3 23. 6	28. 0 38. 7 42. 7 32. 6 32. 2	25. 6 33. 9 40. 8 33. 1 31. 5	41. 7 33. 2	33. 9	51. 7 32. 8	33. 7 47. 7 51. 1 37. 0 41. 3	47. 0 51. 1 36. 4	33. 6 36. 4 37. 5	30. 2	30, 2 33, 3 43, 8	24. 2 27. 8	42. 9 52. 3	40, 2 52, 8 44, 2	40. 2 53. 3 44. 9
34. 8 11. 0 12. 1 50. 4 28. 0	35. 8 11. 0 12. 4 52. 7 30. 2	12.3	8. 7	33. 9 10. 0 11. 2 53. 1	35. 6 10. 0 11. 3 52. 0 29. 7	10.8	33. 2	10. 9 54. 2	14. 0 10. 1	14. 0 10. 0 50. 4	12. 0 59. 4	17. 5 11. 4 60. 5	11.1	8. 8,	12.4	11. 0 12. 4 58. 1	12.2
27. 0 36. 0 17. 7 24. 0 30. 3	26, 4 35, 0 17, 6 23, 7 26, 9			27. 7 31. 1 19. 9 26. 7 27. 1	30. 7 18. 5 29. 0 24. 6		-19. 0 17. 9	28. 3 37. 1 19. 2 25. 5 33. 0	38. 2	19. 9	34. 3 17. 9	32. 5 35. 2 17. 6 19. 1 33. 4	33.6	18. 8 15. 7	17. 8 22. 3	36. 3 18. 1 25. 6	17. 25. (
9. 4 4. 8 3. 5 9. 3 10. 0	9. 3 4. 2 3. 9 9. 7 10. 0	9. 3 4. 2 3. 9 9. 7 10. 0	2. 6 3. 4	9. 7 3. 4 3. 6 9. 3 11. 0		9. 8 3. 2 3. 9 9. 0 11. 0	3. 3	9.4	4.8	4. 6 9. 7	2.9	5. 3 3. 3 8. 6	8.7		9. 0 5. 3 5. 8 9. 7 10. 1	5. 0	9. (
25. 0 18. 6 9. 4 12. 4 1. 7	25. 0 18. 7 10. 2 9. 7 1. 8	10.2	8, 2	25. 3 19. 6 9. 0 10. 4 1. 3	8. 9 10. 2	10. 2	8. 5	9.3 9.7	9.3 9.7	14. 6 9. 5 9. 7	17. 6 8. 0 11. 8	17. 2 8. 6 10. 4	8. 6 10. 2	8. 5	23. 1	11.8	9. 12.
5. 3 9. 4 14. 2 14. 2 16. 4	6. 5 5. 8 14. 4 15. 2 17. 4	14. 4 15. 2		3, 5 4, 9 15, 8 13, 9 15, 3	4. 7 15. 2 14. 6	4. 9 6. 9 15. 2 14. 6 15. 5		4. 7 14. 7 16. 4 17. 3	13. 5	13. 5 17. 4	4. 8 12. 6 14. 9	6. 6 12. 4 14. 4	12.4		6. 0 9. 7 12. 1 16. 7 17. 9	7. 2	7. 3 12. 3 17. 3
13, 8 10, 7 66, 9 40, 0	14. 4 10. 8 67. 9 43. 6	67. 9	6. 0 65. 7 35. 8	79. 7	11.0	83. 2		10. 4 57. 3	1 15. 1 10. 1 60. 4 41. 9	10. 0 60. 7	10. 4 67. 1		9. 5 68. 0	5. 5 52. 5 31. 3	61. 0		61.
21. 5 19. 2 12. 2 55. 3		16. 9 12. 3			14. 8 2 17. 6	14. 4		16. 9 35. 0	16. 2 13. 8 37. 5 37. 8	13. 8 37. 9	17. 0 33. 3	15. 2 38. 8	14. 9 34. 5	****	18. 4 32. 6	16. 8 15. 1 34. 4 45. 8	15.

² Per pound.

RINCIPAL

uis, Mo.

Mar. Apr. 15, 15, 1924 1924

MONTHLY LABOR REVIEW

TABLE 5-AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES—Concluded

For one at on the

reprepared national Base Ci

to: M de

RW

No large as 150		8	Seattle	, Wash		Sprin	ngfield	, III.	Was	hingt	on, D	. C.
Artide	Unit	Apr.	15-	Mar.	Apr.	Apr.	Mar. 15,	Apr 15,	Apr.	15—	Mar.	
BBI JOST IN SIM IS	1 1064 (B04)	1913	1923	15, 1924	15, 1924	15, 1923	1924	1924	1913	1923	15, 1924	15, 1924
Sirloin steak	do	Cts. 22. 6 20. 6 18. 6 15. 6 11. 7	25. 1	27. 8 26. 2 18. 0	Cts. 32. 5 27. 7 25. 4 17. 9 13. 5		19. 9	22. 6	24. 1 22. 0 17. 4	33. 0 22. 7	36. 1 33. 5 23. 4	43. 1 36. 6 33. 5
Pork chopsBacon, slicedBacon, slicedLamb, leg ofHens.	do do do	20. 4	33. 2 48. 0 50. 0 34. 1 32. 0	44. 8 48. 3 34. 6	30. 5 45. 0 49. 8 36. 7 33. 2	39. 3 43. 2 39. 4	24. 1 37. 3 43. 0 40. 7 32. 3	43. 6 42. 1	26. 5 20. 0 23. 3	38. 0 54. 3 40. 8	31.9 51.8 40.3	32.1 51.8 43.2
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart	8. 6	31. 0 12. 0 11. 0 51. 8 28. 5	12. 0 10. 7 57. 0	30. 3 12. 0 10. 7 46. 3 30. 0	11. 1 12. 9 56. 0	12. 5 12. 9 58. 3	12. 5 12. 4 49. 1	9. 0 43. 3	12.1	15. 0 12. 4 60. 7	15. (12. (53. :
Nut margarine	do	21. 6 17. 7	28. 7 36. 0 19. 1 24. 6 31. 4	18, 8	29. 9 35. 5 18. 6 27. 5 30. 8	17. 0 24. 0		37. 3 17. 5			38.3 16.7 24.9	37. 16. 24.
Bread	do	3. 0	4.0	9.8 4.2 4.2 8.7 11.7	9.8 4.1 4.3 8.8 11.5	9. 3 5. 1 4. 4 10. 6 10. 1	10. 2 4. 6 5. 0 10. 7 10. 5	4. 6 4. 9 10. 6	3. 7	5. 1 4. 0 9. 0	4.8 4.3 9.1	4. 4. 9.
Wheat cereal	do	. 8	24. 6 18. 3 11. 2 10. 9 1. 8	18. 1 11. 7 10. 4	25. 0 18. 2 11. 7 10. 3 3. 1	9.8	25. 3 19. 8 10. 5 9. 3 2. 6	19. 0 10. 3 8. 9	9. 4	21. 4 10. 4 11. 9	21. 1 10. 2 9. 6	20. 2 10. 9.
Onions	No. 2 cando	~~~~	5. 6 7. 2 15. 4 17. 1 18. 4		5. 0 9. 7 16. 1 17. 9 19. 7	8. 0 10. 7 13. 3 14. 7 17. 8	14.8	13. 2		11.7 14.7		7. 11. 14.
Fomatoes, canned Sugar, granulated Fea Coffee	Pounddo	5, 9 50, 0 28, 0	1 15, 8 11, 1 66, 6 39, 5		1 16. 4 10. 5 75. 0 43. 3	70. 6	11. 6 77. 5	11. 0 77. 5			9.8	9. 3 76.
Prunes Raisins Bananas Oranges	do Dozendo		17. 9 18. 4 2 16. 2 45. 9	15. 6 2 15. 7	14. 3 15. 6 3 15. 7 43. 3	19. 0 3 10. 6	16. 5 12. 7	16.4		17. 4 37. 3	19.5 15.6 40.6 37.3) 15.) 37.

¹ No. 21 can.

Per pound.

Comparison of Retail Food Costs in 51 Cities

FOOD IN

ton, D. C.

Mar. Apr.

1924 1924

Cts. Cts. 43. 2 43. 1 36. 1 36. 6 33. 5 33. 5 23. 4 23. 8 13. 1 13. 3

27. 9 29.8 31. 9 32.1 51. 8 51.8 40. 3 43.2 39. 2 39.5

27. 9 27. 7 15. 0 15. 0 12. 4 12. 0 60. 7 53. 5 30. 6 30. 4

28. 8 28. 6 38. 3 37. 7 16. 7 16. 5 24. 9 24. 9 34. 8 31. 6

9.0 9.0 4.8 4.7 4.3 4.3 9.1 9.3 9.4 9.4

3. 8 23. 9 1. 1 20. 8 0. 2 10. 5 9. 6 9. 5 2. 8 2. 8

3.3 6.4 7.4 7.4 8 11.7 7 14.7 5 16.5

9 11.0 8 9.2 3 76.2 9 38.4

0 15.0 0 37.5 3 37.7 TABLE 6 shows for 39 cities the percentage of increase or decrease in the retail cost of food in April, 1924, compared with the average cost in the year 1913, in April, 1923, and in March, 1924. For 12 other cities comparisons are given for the one-year and the one-month periods. These cities have been scheduled by the bureau at different dates since 1913. These percentage changes are based on actual retail prices secured each month from retail dealers and on the average family consumption of these articles in each city.

Effort has been made by the bureau each month to have perfect reporting cities. For the month of April 99 per cent of all the firms reporting in the 51 cities sent in a report promptly. The following were perfect reporting cities; that is, every merchant in the following named 38 cities who is cooperating with the bureau sent in his report in time for his prices to be included in the city averages: Atlanta, Baltimore, Birmingham, Boston, Bridgeport, Buffalo, Butte, Chicago, Cincinnati, Cleveland, Columbus, Dallas, Denver, Fall River, Houston, Kansas City, Little Rock, Louisville, Manchester, Memphis, Milwaukee, Newark, New Haven, Norfolk, Omaha, Peoria, Philadelphia, Portland, Me., Portland, Oreg., Providence, Richmond, Rochester, St. Louis, St. Paul, Salt Lake City, Scranton, Springfield, Washington.

The following summary shows the willingness with which the merchants responded in April, 1924:

RETAIL PRICE REPORTS RECEIVED DURING APRIL, 1924

The state of the s			Geogr	raphical di	vision	
Item	United States	North Atlantic	South Atlantic	North Central	South Central	Western
Percentage of reports received	99	99	98	99	98	98
Number of cities in each section from which every report was received	38	12	5	11	6	4

⁷ For list of articles, see note 2, p. 37.

⁸ The consumption figure used from January, 1913, to December, 1920, for each article in each city is given in the MONTHLY LABOR REVIEW for November, 1918, pp. 94 and 95. The consumption figures which have been used for each month, beginning with January, 1921, are given in the MONTHLY LABOR REVIEW for March, 1921, p. 26.

TABLE 6.—PERCENTAGE CHANGES IN THE RETAIL COST OF FOOD IN APRIL, 1924, COMPARED WITH THE COST IN MARCH, 1924, APRIL, 1923, AND WITH THE AVERAGE COST IN THE YEAR 1913, BY CITIES

MC dark	Percentage increase April.	crease A	tage de- pril, 1924, ed with—		Percentage increase April,	Percent crease Ap compare	bril 1904
City	1924, com- pared with 1913	April, 1923	March, 1924	City	1924, com- pared with 1913	April, 1923	March 1924
Atlanta	40	ent phi	0 1 0	Milwaukee	45 39	10.3	2
Birmingham	46	31301 118	1	Minneapolis Mobile	39	3	3
Boston	42	3	2	Newark	39	î	
Bridgeport	*****	3	3	New Haven	41	ī	
Buffalo	1 119 42	3	3	New Orleans	40	2 3	
Batte		10.2		New York	46		
Charleston	46 50	11	2	Norfolk Omaha	40	2	
Cincinnati	41	0.1	2	Peoria	40	10.3	
leveland	40	2	1	Philadelphia	42	2	
olumbus		1110	1 2	Pittsburgh	43	1	
Dallas	41	0.3	01707	Portland, Me		11	
DenverDetroit		0	2	Portland, Oreg Providence	30 43	3	
NECESSIAN CONTRACTOR	96	mr.	2976	F-01-85 (11-32 & 27 C - 12-32)	131 174	0	
all River	37	6	50 05	Richmond	48	4	
louston	36	2	1	Rochester	43	2	
acksonville	26	0.1	. 2	St. Paul	43	2	
Canses City	39	ang i	î ,	Salt Lake City	22	1 0. 4	
ittle Rock	35	3	1 0. 1	San Francisco	40	12	
os Angeles	40	12	0.4	Savannah		3	
ouisville	01	0.2	I CLE TO	Scranton		11	
lanchester	35	3 9	2	Seattle	37	11	
tempuis	90	2	1	Springfield, fil Washington, D. C.	46	2	

¹ Increase.

Retail Prices of Coal in the United States 1

THE following table shows the average retail prices of coal on January 15 and July 15, 1913, April 15, 1923, and March 15 and April 15, 1924, for the United States and for each of the cities from which prices have been obtained. Prices for coal are secured from the cities from which monthly retail prices of food are received.

In addition to the prices for Pennsylvania anthracite, prices are shown for Colorado, Arkansas, and New Mexico anthracite in those cities where these coals form any considerable portion of the sales for household use.

The prices shown for bituminous coal are averages of prices of the several kinds used. The coal dealers in each city are asked to quote prices on the kinds of bituminous coal usually sold for household use.

The prices quoted are for coal delivered to consumers, but do not include charges for storing the coal in cellar or coal bins where an extra handling is necessary.

¹ Prices of coal were formerly secured semiannually and published in the March and September issues of the Monthly Labor Review. Since June, 1920, these prices have been secured and published monthly.

AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15, 1913, APRIL 15, 1923, AND MARCH 15 AND APRIL 15, 1924

City and bind of soal	193	3	1923	192	24
City, and kind of coal	Jan. 15	July 15	Apr. 15	Mar. 15	Apr. 15
United States: Pennsylvania anthracite					
Stove	\$7, 99	\$7, 46	\$15.07	\$15.72	\$15, 04
Chestnut.	8. 15	7. 68	15. 07	15. 70	15. 04
Bituminous	5. 48	5. 39	10. 46	9, 53	9. 11
Atlanta, Ga.: Bituminous	P 00	4 69	0.05	0.10	7 01
Raltimore, Md.:	5, 88	4. 83	8. 35	8. 13	7. 21
Pennsylvania anthracite— Stove	17.70	17.24	1 15. 75	1 16, 75	1 15, 50
Chestnut	17.93	17.49	1 15. 75	1 16. 50	1 15, 25
Birmingham, Ala.:			9, 00	7. 70	7. 75
Bituminous.	4. 22	4, 01	7.45	8, 15	7, 34
Poston Mass:	-	3.55	****	0, 20	
Pennsylvania anthracite— Stove	8. 25	7. 50	15.00	15, 50	15, 50
Chestnut	8. 25	7.75	15.00	15, 50	15, 50
Bridgeport, Conn.:			20,00	20,00	200
Pennsylvania anthracite— Stove			15.00	10.50	15.00
Chestnut			15, 00 15, 00	16. 50 16. 50	15, 00 15, 00
Buffalo, N. Y.:			20.00	20.00	201.00
Pennsylvania anthracite— Stove	0.00	0.74	10.04	10 00	10.00
Chestnut.	6. 75 6. 99	6. 54	13. 24 13. 24	13. 63 13. 63	13. 00 13. 00
Dutte Went .	-	0.00	20.22	10.00	20.00
Bituminous			10. 90	10. 98	10.89
Charleston, S. C.: Pennsylvania anthracite—	22.00				
Stove	18.38	17.75	1 17. 25	1 17, 00	1 16, 50
Chestnut	1 8, 50	1 8. 00	1 17. 10	1 17. 10	1 17. 10
Bituminous	1 6, 75	1 6. 75	12.00	12.00	12.00
Penneylvania anthracita-					
Stove	8, 00	7.80	15. 73	16. 75	16, 08
Chestnut	8. 25 4. 97	8. 05 4. 65	15. 69 8. 84	16. 75	16.08
Cincinnati, Ohio:	4. 91	9. 00	0. 04	8, 56	8. 06
Cincinnati, Ohio: Bituminous	3. 50	3, 38	8, 65	7.72	7. 22
leveland, Ohio:	10.70				
Pennsylvania anthracite— Stove	7. 50	7. 25	14, 58	15. 41	14. 25
Chestnut	7. 75	7. 50	14. 58	15. 41	14. 25
Bituminous	4. 14	4. 14	9, 99	8, 42	8, 07
Columbus, Ohio: Bituminous	131.3		8, 63	7. 24	6, 69
Dallas, Tex.:			0.00	1.23	0.00
Arkansas anthracite—			***		17 01
EggBituminous	8. 25	7. 21	16. 25 14. 46	17. 75 14. 68	17, 25 14, 68
Denver, Colo.:	0. 20	1. 21	24. 30	23, 00	A 2. 00
Colorado anthracite—					45.50
Furnace, 1 and 2 mixed	8, 88 8, 50	9, 00 8, 50	16. 00 16. 00	16. 75 16. 75	15, 50 15, 50
Bituminous.	5. 25	4. 88	9. 78	8. 51	8. 57
Detroit, Mich.:	0, 20	2.00	0.10		0,0,
Pennsylvania anthracite-	0.00	- 45	10.00	15 00	15 50
StoveChestnut	8. 00 8. 25	7. 45 7. 65	15. 75 15. 75	15, 88 15, 88	15, 50 15, 50
Bituminous	5. 20	5. 20	11. 32	9. 52	9. 45
all River, Mass.:	140.71				
Pennsylvania anthracite— Stove	8. 25	7. 43	15. 50	16.00	15, 50
Chesthut	8. 25	7. 61	15, 42	16, 00	15. 50
ouston, Tex.:	1		1275	or this was a love to	
Bituminous			10, 67	- 13, 17	12.00
ndianapolis, Ind.: Pennsylvaria anthracite—			-		
Stove	8. 95	8.00	15, 88	16.75	16. 75
Chestnut	9. 15	8. 25	15, 88	16, 75	16.75
Bituminousacksonville, Fla.:	3. 81	3. 70	8. 37	7. 12	7.01
Bituminous	7. 50	7.00	14.00	13, 00	13. 00

1 Per ton of 2,240 pounds.

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March, 1924

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AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND FULY 15, 1913, APRIL 15, 1923, AND MARCH 15 AND APRIL 15, 1924—Continued

City and hind	191	13	1923	199	24
City, and kind of coal	Jan. 15	July 15	Apr. 15	Mar. 15	Apr. 15
	-				
Kansas City, Mo.:			11 44		
Arkansas anthracite— Furnace			\$14, 85	210 14	
Stove, No. 4			\$14.85 16.25	\$16. 14 17. 25	\$15.
Bituminous	\$4.39	\$3.94	8. 60	8. 46	16.
Little Rock, Ark.:	74, 55	40101	5, 50	O. TO	8.
Arkansas anthracite—					1
Egg			15. 00	15. 00	15,
Bituminous.	6.00	5. 33	11.00	11. 33	_ 10.
Los Angeles, Calif.: Bituminous	13, 52	12. 50	16, 50	15, 50	
Louisville, Ky.:	15. 52	12, 00	10, 50	10. 50	15,
Bituminous	4. 20	4.00	8. 68	8.73	-
Manchester, N. H.:	2.20	2.00	3.00	3.10	7,
Pennsylvania anthracite—	A marky			1411	
Stove	10.00	8. 50	17.00	18.00	17.
Unestnut	10.00	8. 50	17. 00	17, 00	16.
Memphis, Tenn.: Bituminous	14.34	14.00	9: 38	7.00	
Milwaukee, Wis.:	4. 34	3 4, 22	9. 38	7. 93	7.
Pennsylvania anthracite—				111111111111111111111111111111111111111	
Stove	8. 00	7. 85	16. 43	16.68	16.
Chestnnt	8, 25	8. 10	16. 41	16. 59	16. 16.
Bituminous	6. 25	5. 71	12. 19	10. 04	10.
Minneapolis, Minn.:				11111	20,
Pennsylvania anthracite— Stove————————————————————————————————————	7 474		40.00		
Chestrust	9. 25	9. 05	17. 90	18.12	17.
Chestnut	9. 50 5. 89	9. 30 5. 79	17. 93 13. 29	18. 09	17.
Bituminous	0.89	5. 79	13. 29	11. 04	10.
Bituminous			10. 29	11.07	9.
Newark, N. J.:			10. 20	11.01	25,
Pennsylvania anthracite—			1111		
Stove	6. 50	6. 25	12.75	13. 45	12.
Chestnut	6.75	6. 50	12.75	13, 45	12.
New Haven, Conn.:		111111111111111111111111111111111111111	100	Minde	
Pennsylvania anthracite— Stove————————————————————————————————————	7,50	6, 25	14, 75	16, 00	
Chestnut	7.50	6. 25	14, 75	16.00	14. 14.
New Orleans, La.:	1.00	0, 20	24.10		14.
Pennsylvania anthracite—	Tax a			3070	
Stove	10.00	10.00	21. 75	22.00	22.
Chestnut	10. 50	10. 50	21. 75	22, 00	22.
Bituminous	9 6. 06	9 6. 06	11. 25	11. 14	11.
New York, N. Y.:	TIS.		-	Pilal	
Pennsylvania anthracite— Stove	7.07	6, 66	13, 67	14 99	40
Chestnut	7. 07	6, 80	13. 67	14. 33 14. 33	13. 13.
Norfolk, Va.:	1. 12	0. 60	10.07	17. 33	13.
Pennsylvania anthracite—			1100	7.1	
Stove			17. 00	16, 00	16.
Chestnut			17.00	16.00	16.
Bituminous			13. 24	9. 00	8.
Omaha, Nebr.:					
Bituminous	6. 63	6. 13	11. 23	10. 20	10.
Peoria, Ill.: Bituminous	01.6		e les	1 0 00	
BituminousPhiladelphia, Pa.:			6. 83	6.38	6.
Pennsylvania anthracite—				Later Control	
Stove	1 7. 16	1 6, 89	1 14. 57	1 15, 57	1 14.
Chestnut	1 7. 38	17.14	1 14. 57	1 15, 57	114
Pittsburgh, Pa.:	1 25		-	15/7/	-
Pennsylvania anthracite—	374 (0	1	1	7, 100	-
Stove	17.94	1 7. 38	1 16. 75	1 16. 75	1 16.
Chestnut	1 8, 00	17.44	1 16, 88	1 16. 83	1 16.
Bituminous	3 3. 16	3 3. 18	8. 46	7. 39	7.
Portland, Me.: Pennsylvania anthracite—	acoula Contract		1000		
Pennsylvania anthracite— Stove			15.04	10 70	16.
Stove			15. 84 15. 84	16, 56	16. 16.
			10, 51	16, 56	10.
'ortland, Oreg.:				The second	1

[1246]

¹ Per ton of 2,240 pounds. ² Per 10-barrel lots (1,800 pounds). ³ Per 25-bushel lots (1,900 pounds).

AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15, 1913, APRIL 15, 1923, AND MARCH 15 AND APRIL 15, 1924—Concluded

inhant symmetrical at	19:	13	1923	192	24
City, and kind of coal	Jan. 15	July 15	Apr. 15	Mar. 15	Apr. 15
Providence, R. I.:		opine)			
Providence, R. I.: Pennsylvania anthracite—					
Stove	4 \$8. 25	4 \$7. 50	4 \$15. 00 1	4 \$16. 35	\$15.50
Chestnut	48. 25	4 7. 75	4 15. 00	4 16. 35	15, 50
	2000		THE PERSON NAMED IN	A HE TOTAL	
Stove	8.00	7, 25	15, 50	16, 50	15, 50
Chestnut	8, 00	7. 25	15, 50	16. 50	15, 50
Bijuminous.	5, 50	4. 94	11. 84	11. 36	8, 90
Rochester, N. Y.:	0.00	2.02	21.01	11.00	0. 50
Pennsylvania anthracite—					
Pennsylvania anthracite— Stove			13, 45	14, 10	13, 75
Chestnut			13, 45	14. 10	13, 65
St. Louis, Mo.:					
Pennsylvania anthracite—	1116.0			nu bono l	
Stove	8, 44	7.74	16.00	17. 13	16, 19
Chestnut	8, 68	7. 99	16. 19	17. 38	16. 44
Bituminous	3. 36	3. 04	6.80	7. 07	6, 36
St. Paul, Minn.:					
Pennsylvania anthracite-	0.00	0.05		40.44	18 00
Steve	9. 20	9. 05	17. 67	18, 14	17. 60
Chestnut	9. 45	9. 30	17. 64	18. 09	17. 45
Bituminous	6. 07	6.04	13. 49	11. 26	10, 85
alt Lake City, Utah: Colorado anthracite—	I I I				
Furnace, 1 and 2 mixed	11.00	11.50	15. 00	17. 50	17. 50
Stove, 3 and 5 mixed	11.00	11. 50	15, 00	17. 75	17, 75
Bitumihous.	5, 64	5, 46	8, 55	7.47	7, 43
an Francisco, Calif.:	0.02	0. 10	0.00		1, 20
Now Marias anthrosita					
Cerillos egg	17.00	17.00	26, 75	26, 50	26. 50
Colorado anthracite					
Egg.	17.00	17.00	24. 25	24. 50	24, 50
Bituminous	12.00	12.00	17. 90	17. 33	17. 33
avannah, Ga.:					
Pennsylvania anthracite-					
Stove			8 17. 00	6 17, 05	8 17. 05
Chestnut			* 17. 00	* 17. 05	6 17. 05
Bituminous			5 13, 17	12.02	8 10, 92
cranton, Pa.:					
Pennsylvania anthracite—	4.05	4 21	0.00	10 52	10.00
Stove	4. 25 4. 50	4. 31	9, 82	10, 53	10. 00 10, 00
Chestnuteattle, Wash.:	4, 50	9. 00	9. 84	10, 55	10, 00
Bituminous	6 7, 63	6 7, 70	6 10, 26	6 10, 03	6 9, 87
pringfield III .	1.00	1.10	10. 20	10,00	3,01
Bituminous			4.98	4, 50	4, 50
Ashington, D. C.:			7. 00	2. 00	1, 00
Vashington, D. C.: Pennsylvania anthracite—	0.0			and a	
Pennsylvania anthracite— Stove	1 7, 50	1 7. 38	1 15, 39	1 16, 14	1 15, 14
Chestnut	17.65	1 7. 53	1 15. 32		1 14, 90
Bituminous.				1 9, 00	18.73

SEHOLD 15 AND

Apr. 15

\$15, 64 16, 75 8, 43

10, 58 15, 40 7.21

17.08 16.33 7, 93

16.30 16.15

17. 60 17. 48 10. 65

9, 57

14, 83

13, 50 13, 50

16.00 8.97 16, 16

6.34

1 14, 64

1 16.00 1 16.00 7.25

16.08 16.08 13, 41

[1247]

¹ Per ton of 2,240 pounds. Per ton of 2,240 pounds.
 Fifty cents per ton additional is charged for "binning." Most customers require binning or basketing the coal into the cellar.
 All coal sold in Savannah is weighed by the city. A charge of 10 cents per ton or half ton is made. This additional charge has been included in the above prices.
 Prices in Zone A. The cartage charges in Zone A were as follows: January and July, 1913, \$0.50; April, 1923, and March and April, 1924, \$1.25. These charges have been included in the price.

Index Numbers of Wholesale Prices in April, 1924

THE trend of wholesale prices continued downward in April according to information collected in representative markets by the United States Department of Labor through the Bureau of Labor Statistics. The bureau's weighted index number, which includes 404 commodities or price series, declined to 148 for April, compared with 150 for the month before and 159 for April, 1923.

Decreases in prices of foodstuffs and metals were chiefly responsible for the drop in the general price level. Among foods, butter, cheese, milk, eggs, flour, lard, and sugar averaged lower than in March. In the metals group practically all raw materials and semimanufactured products, as well as certain finished products, were lower. Smaller decreases took place also in the groups of cloths and clothing, fuel and lighting, and chemicals and drugs.

Farm products, on the other hand, showed an increase over the price level in March, due to advances in cattle, hogs, sheep, poultry, cotton, hay, potatoes, and peanuts. No change in the general price level was reported for the groups of building materials, house-furnishing goods, and miscellaneous commodities.

Of the 404 commodities or price series for which comparable data for March and April were collected, decreases were shown in 157 instances and increases in 67 instances. In 180 instances no change in price was reported.

INDEX NUMBERS OF WHOLESALE PRICES, BY GROUPS OF COMMODITIES

[1913 - 100]

Course Course	April,	1924			
Group	1923	March	April		
Farm products	141	137	139		
FoodsClothing	144 205	141 191	137		
Fuel and lighting	200	181	179		
Metals and metal products	154	144	139		
Building materials	204	182	182		
Chemicals and drugs	136	130	128		
House furnishing goods	187	175	175		
Miscellaneous	126 159	113	113		

Comparing prices in April, 1924, with those of April, 1923, as measured by changes in the index number, it is seen that the general level has declined almost 7 per cent. In all groups prices averaged lower than in April, 1923, ranging from 1.4 per cent in the case of farm products to 10.5 per cent in the case of fuel and lighting and 10.8 per cent in the case of building materials.

Index Numbers of Wholesale Prices: Farm Products and Foods Compared with All Commodities, 1910 to April, 1924

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FLUCTUATIONS in the trend of wholesale prices of farm products and foodstuffs in the United States since 1910 are compared in the following table with the price fluctuations of all commodities, as shown by the weighted index numbers constructed by the Bureau of Labor Statistics. Parallel columns also furnish a comparison for all commodities exclusive of farm products and all commodities exclusive of farm products and foods. The effect of excluding raw cotton from the farm products group is shown in a column of the table. These figures are directly comparable with other index numbers of wholesale prices currently published by the bureau.

INDEX NUMBERS OF WHOLESALE PRICES: FARM PRODUCTS AND FOODS COM-PARED WITH ALL COMMODITIES

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Year and month	All commodi- ties	Farm products	Farm products less cotton	All com- modities less farm products	Foods	All com- modities less farm products and foods	
1	101	100	101	100	101	- 0	
1910	101	103	101	93	101	99	
1912	99	101	103	98	104	9.	
1913	100	100	100	100	100	10	
1914	98	103	104	96	102	9	
1915	101	104	107	100	105	9	
1016	127	123	124	128	121	13	
917	177	190	191	172	167	17	
1918	194	218	215	184	188	18	
919	206	231	228	196	207	19	
920	226	218	212	230	220	23	
921	147	124	125	157	144	16	
1922	149	133	129	155	138	16	
923	154	141	130	159	144	16	
924:							
January	151	144	128	153	143	16	
February	152	143	128	155	143	16	
March	150	137	126	155	141	16	
April	148	139	126	152	137	15	

Wholesale Prices in the United States and Foreign Countries, 1913 to March, 1924

In the following table the more important index numbers of wholesale prices in foreign countries and those of the United States Bureau of Labor Statistics have been brought together in order that the trend of prices in the several countries may be directly compared. In some instances the results here shown have been obtained by merely shifting the base to the year 1913; i. e., by dividing the index number for each year or month on the original base by the index number for 1913 on that base as published. In such cases, therefore, these results are to be regarded only as approximations of the correct index numbers. It should be understood, also, that the validity of the comparisons here made is affected by the wide difference in the number of commodities included in the different series of index numbers. The number of countries for which data are given has been considerably enlarged in the table following.

WHOLESALE PRICES IN THE UNITED STATES AND CERTAIN FOREIGN COUNTRIES [Index numbers expressed as percentages of the index number for 1913. See text explanation]

Year and month	United States: Bureau of Labor Statis- tics; 404 commo- dities (vari- able)	Canada: Domin- ion Bureau of Statis- tics; 238 commod- ities	Helgium: Ministère l'Indus- trie et du Travail; 128 com- modities	Bulgaria: Director General of Statis- ties; 38 com- modities	Czecho- slovakia: Central Bureau of Statis- tics; 126 commod- ities	Den- mark: Fin- ansti- dende; 33 com- modi- ties	Finland: Central Bureau of Sta- tistics; 125 com- modities	France: Statistique gén- érale; 45 com- modi- ties	Ger- many: Statis- tisches Reichs- amt; 38 com- modi- ties (gold)	Great Britain; Board of Trade; 150 com- modi- ties
1913	100	100	9 × 19 H	100			100	100	100.0	100
1914	98	102	1 100	103	2 100	8 100		102		100
1915	101	110		137		138		140		
1916	127	132				164		188		
1917	177	179				228		262		
1918		199				293		339	*******	
1919	206	209				294		356		
1920		244		1,940		382	1, 183 1, 263	509		307
1921	147	172		2,006		250	1, 263	345		197
1922	149	152	367	2, 473	1, 356	179	1, 219	327		159
1923	154	153	497	2, 525	995	201	1, 095	419		159
1921		Mrs. Spil	W 1991			101				
Jan	170	202		2, 392		341	1, 223	407	********	246
Feb	160	191		2, 135		290	1, 188	377		225
Mar	155	186		2, 437		280	1, 203	360		211
Apr	148	181		2, 006		270	1, 249	347		205
May	145	171		1,945		257	1, 182	329		202
June	142	164		1,680		254	1, 247	325		198
July	141	163		1,721		253	1, 259	330		194
Aug		166	347	1, 730		254	1, 293	331		
Sept	141	162	368	1,758		224	1, 364	344		187
Oct	142	156	372	2, 052		202	1, 361	331		181
Nov Dec	141 140	254 154	374 369	2, 061 2, 155		186 188	1, 305 1, 295	332 326	*******	173
Dec	140	101	300	2, 100		100	1, 230	320		168
1922	100	100	000	0.190	1 070	4.890	4 000	044		
Jan	138	150	366	2, 172	1,676	178	1, 263	314		164
Feb	141	154	356	2, 272	1, 522 1, 553	177	1, 254	306		162
Mar		154	350	2, 287	1,000	182	1, 244	307	80. 3	160
Apr	143	151	344	2,514	1,492 1,472	178	1, 260	314	******	160
May		152	348	2, 695 2, 436		177	1, 241	317	00.0	161
June		151 152	356 360	2, 489	1,472 1,465	179 180	1, 229	325	93, 0	160
July		150	360	2, 526	1, 387	180	1, 219 1, 230	325 331		160
Aug Sept	153	145	364	2, 531	1, 156	178	1, 230	329	82. 2	156
Oct		146	385	2, 558	1, 059	176	1, 186	337	04. 4	154 155
Nov	156	150	408	2, 564	1,018	180	1, 140	352	*******	158
Dec	156	151	407	2, 630	1,000	182	1, 149	362	81.6	156
1000	111	7 23	1000	18111111						100
1923	150	151	494	0.057	1 004	101	1 104	907	05.0	1
Jan	156	151	434	2,657	1,004	181	1, 134	387	65. 0	157
Feb	157 159	154 156	474 482	2, 666 2, 828	1, 019 1, 028	192 199	1, 127	422	84.0	158
Mar	159		480	2,757			1, 108	424	96.8	160
Apr May	156	157	474	2, 613	1, 082	200 204	1, 096 1, 093	415	89. 5	162
June	153	156	484	2, 545	1,000	202	1, 095	409	71. 9 74. 0	160
July	151	154	504	2, 408	969	207	1, 080	407	88. 8	159 157
Aug	150	154	529	2, 292	959	207	1, 080	413	85. 8	155
Sept.	154	155	514	2, 265	958	202	1,089	424	101. 7	158
Oct	153	153	515	2, 263	974	205	1, 077	421	117. 9	158
Nov	152	153	531	2, 412	965	207	1, 070	443	139. 0	161
Dec	151	154	545	2, 597	984	210	1,096	459	126. 2	163
10001	SOF BUIL	Annual Control	The last of	1 415 501	HERBIG.	HOME		DILL CO	-	
1924	100	187	190	9 711	001	010	1 071	40.5	147 0	100
Feb	151 152	157 157	580 642	2, 711	991 1, 929	210 223	1,071	495	117.3	165
Mar	150	154	625	2, 658	1, 036	227	1, 078 1, 094	544 500	116. 2 120. 7	167 165
	A 1757 T	AUA	040		As UUU	446	A . 171778	1001	B 655 6	

correct index numbers. It should be understood, also, that the

¹ April.
² July.
³ July 1, 1912–June 30, 1914.

WHOLESALE PRICES IN THE UNITED STATES AND CERTAIN FOREIGN COUNTRIES—Concluded

INTRIES

Great Britain: Board of Trade;

commodities

tion

Year and month	Italy: Riccardo Bachi; 107 com- mod- ities 4	Nether- lands: Cen- traal Bureau voor de Statis- tiek; 48 com- mod- ities ⁸	Norway: Central Bureau of Statis- tics; 174 com- mod- ities	Spain: Instituto Geografi- co y Esta- distico; 74 com- mod- ities	Sweden: Kom- mers kollegii; 160 com- mod- ities	Switz- erland: Dr. J. Lorenz; 71 com- mod- ities	Australia: Bureau of Census and Statistics; 92 commodities	New Zealand: Census and Sta- tistics Office; 106 com- mod- ities	South Africa: Office of Census and Sta- tistics; 187 com- mod- ities	Japan: Bank of Japan, Tokyo; 56 com- mod- fties
	100	100	100	100	100		-	100		
1913	100 95	100 109	100	100	100	2 100	9 100	100	100	100
1914	133	146		119		. 100	2 100 141	104 123	97 107	95 97
1915	202	226		141			132	134	123	117
1916	299	276		166			146	151	141	147
1917	409	373		207			170	175	153	193
1919	364	304		204			180	178	165	236
1920	631	292		221	359		218	212	223	259
1921	577	182		190	218	196	167	201	161	200
1922	562	160		176	173	168	154	178	129	196
1923	575	151	232	172	163	180	170	175	127	199
1921	Hospital	I Libertini	1	HEATT .	11115				11	11717
Jan	642	213		219	272	238	196	216	188	201
Feb	613	197		203	256	230	192	210		195
Mar	604	188		193	249	219	181	208		191
Apr	584	176		191	239	208	171	204	166	190
Мау	547	182		. 187	230	186	166	201		191
June	509	182		186	223	185	162	200	150	192
July	520	176 180		186	216	179	159	200	150	196
Aug	542 580	180		183 183	211 201	177	160 160	197 197		199
Sept	599	169		185	194	184	156	195	138	219
Nov	595	165		184	189	182	151	191	100	214
Dec	595	165		183	188	178	148	189		209
1922	N.13400	St. Birth	JY P	0.60		120		111111111111111111111111111111111111111		1
Jan	577	163		180	181	177	147	186	131	206
Feb	562	165		179	179	172	147	181		204
Mar	533	164		177	177	172	146	180		201
Apr	527	163		180	175	165	148	180	128	197
May	523	165		178	175	162	155	177		194
June	537	165		178	174	163	156	175		197
July	558	164		175	173	164	157	177	126	201
Aug	571 582	156 152		175 174	173 170	165 166	155 158	177		195
Sept Oct	601	155		172	169	165	159	174	129	190
Nov.	596	158		174	163	171	162	176	220	188
Dec	580	155		172	163	172	161	173	******	183
1923	T De	rady 50	0.012	2 mm	STREET	and stops	well of		Tall 1	9 005
Jan.	575	157	223	170	163	175	163	171	131	184
Feb	582	155	222	170	165	175	161	173		192
Mar	587	156	228	171	168	181	163	174		196
Apr	588	156	229	174	168	186	167	174	126	196
May	580	149	232	171	166	187	170	176	~~~~~~	199
June	569	149 145	232	170 170	164	181 180	178	177 176	124	198 192
July	566 567	143	231 233	171	162 162	175	180 175	175	124	190
Sept	569	145	232	174	162	173	172	177		210
Oct	563	148	235	171	161	181	171	176	125	212
Nov.	571	153	243	173	160	182	173	175		209
Dec	577	154	247	176	160	183	174	174		210
1924	d lo	TOLLED	ZIZIDO	4 20		-17				1 (1)21
Jan	571	156	251	178	161	185	174	175	131	211
Feb	573	158	261	180	162	186	170			208
	579	156	264		162	184				206

^{4 38} commodities prior to 1920; 76 commodities in 1920 and 1921; 100 commodities in 1922. 6 52 commodities in 1920; 53 commodities from August, 1920, to December, 1921.

WAGES AND HOURS OF LABOR

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Wages and Hours of Labor in the Boot and Shoe Industry, 1913 to 1924

COMPARATIVE figures of average earnings per hour, average full-time hours per week, and average full-time earnings per week are presented in this article for employees in the principal occupations of the boot and shoe industry in the United States for different years in the period 1913 to 1924. Index numbers (percentages) based on these averages with 1913 taken as a base, or 100, are also presented for the industry as a whole and for each occupa-

tion for which 1913 data are available.

The figures for 1924 include 45,651 employees, and are from a survey made by the Bureau of Labor Statistics in 106 representative factories located in 14 States, namely, Massachusetts, New York, Ohio, Pennsylvania, Missouri, New Hampshire, Maine, Illinois, Wisconsin, New Jersey, Michigan, Minnesota, Maryland, and Virginia. These States contain 98 per cent of the wage earners in this industry in the United States. The figures for other years are from prior publications of the bureau. Data were not collected for the

years 1915, 1917, 1919, 1921, and 1923.

The data for all years covered were taken by agents of the bureau directly from the pay rolls or other records of the establishments. The number of establishments furnishing data has varied from year to year; 88 establishments were covered in 1913, the initial year of the table; in 1918, 143 establishments furnished data. The 1924 data were taken from the January records of 70 factories, from the February records of 23 factories, from the March records of 6 factories, and from the April records of 7 factories. The mass of the data, therefore, is for January and February.

In the year ending December 31, 1923, the days of operation of 105 of the 106 establishments range from 248 to 307 days. The average was 290 days. One establishment began operation May 16,

1923.

The difference between the average days of operation (290) and a possible full-time of 313 days was due to the following conditions: Six establishments did not operate any Saturday of the year; 32 were closed by lack of orders from 4 to 54 days; 22 were closed for inventory from 1 to 24 days; all were closed for holidays from 3 to 11 days; 32 were closed for vacation, or a continuation of holidays, from 3 to 32 days; and 29 establishments were closed for other causes

from 1 to 19 days.

Comparatively few wage changes were made during the period between January 1, 1922, and the period of the 1924 survey. Three establishments increased rates, such increases ranging from 10 per cent for the establishment making the lowest increase to 20 per cent for the one making the highest increase. One establishment made an increase of 30 per cent, followed by a reduction of 10 per cent. One establishment gave an increase of 10 per cent and later made a reduction which restored the previous rate; 4 made reductions ranging

66

from 10 to 15 per cent; 11 establishments made reductions ranging from 5 to 10 per cent, and later all of the 11 granted increases restoring the rates in effect prior to the reduction. Some establishments made individual wage changes which did not apply to groups of employees or to occupations as a whole. According to the index presented in the first table the general average of earnings per hour in 1924 for the industry as a whole was 114 per cent higher than in 1913, 8 per cent lower than in 1920, and 3 per cent higher than in 1922.

INDEX NUMBERS OF FULL-TIME HOURS PER WEEK, HOURLY EARNINGS, AND FULL-TIME WEEKLY EARNINGS, FOR THE INDUSTRY, BY SPECIFIED YEARS, 1913 TO 1924

[1913 - 100]

月間 127世	Index numbers of average—								
Year	Full-time hours per week	Hourly earnings	Full-time weekly earnings						
1913	100	100	100						
1914	99	101	100						
1916	99	108	106						
1918	95	139	131						
1920	88	231	202						
1922	88	208	184						
1924	89 '	214	191						

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924

	1			Aver-	Aver-	Aver-		ex nun averag	
Department, occupation, and sex	Year	Num- ber of estab- lish- ments	Number of em- ploy- ees	age full- time hours per week	age earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Cutting department									
Cutters, vamp and whole shoe, hand:		100	ont						
Male.	1913	71	1, 987	54. 5	\$0.351	\$19.05	100	100	100
	1914	75	1,812	54. 0	. 366	19. 66	99	104	103
Marie Control of the	1916	113	2, 355	53. 9	. 375	20. 12	99	107	106
20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1918	114	2, 319	52. 0	. 484	25, 06	95	138	132
the second secon	1920	91	2, 050	47. 8	. 831	40. 29	88	236	211
	1922	84	1, 915	48. 3	. 787	38, 11	89 89	224	203 210
10.4 P. A. W. L. H.	1924	89	2, 014	45. 4	. 837	40. 01	99	238	210
Female	1922	2	9	48. 0	, 612	29, 02			15
4 0111040000000000000000000000000000000	1924	3	14	48. 6	629	30, 57			
Cutters, vamp and whole shoe, machine:	2021			1010		000			
Male	1913	33	549	55. 3	. 323	17.77	100	100	100
739.01 100.01 100.01 2.29	1914	40	642	55. 3	. 325	17. 93	i00	101	101
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1916	67	1,059	54. 9	. 331	18, 07	99	102	102
40.1 (40) 21.75	1918	66	1, 202	52. 2	. 444	23. 04	94	137	130
The state of the s	1920.	56	942	48. 9	. 821	37. 94	88	250	214
104 00 m 15 42 100 1 A A 1	1922	48	867	49. 2	. 647	31. 99	89	200	180
41.2 30.1 78.21 100.1 30	1924	53	772	. 49. 9	. 688	34, 33	90	213	193
Female	1920	10	73	53. 8	. 393	21, 69			
	1922	8	62	52. 5	. 433	23, 51			
200 82 122 200 200 200 200 200 200 200 200 20	1924	4	45	53. 2	. 310	16. 49			
Utters, trimmings, hand:	11111								
Male	1920	87	884	48. 0	. 454	22, 27			
	1922	79	747	-48. 2	460	22, 02			
18 9 1 18 1 2 18 1 2 1 1 1 1 1 1 1 1 1 1 1 1	1924	85	736	48.8	. 485	23, 67			

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1924

verage gs per incipal tes for (perr 100, ecupa-

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AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924.

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According to the index	lode	Num-	Num-	Aver-	Aver-	Aver-	Ind	ex num averag	ibers e-
Department, occupation, and sex	Year	ber of estab- lish- ments	ber of	full- time hours per week	earn- ings per hour	full- time earn- ings per week	Full- time hours per week		Full- time earn- ings per week
Cutting department—Concluded	7,47	J.	19 33		TA IT		1		
Cutters, trimmings, hand—Concluded Female	1920 1922 1924	11 7 5	38 42 28	50. 1 48. 0 52. 2	\$0. 283 . 299 . 341	\$13. 98 14. 82 17. 80			
Cutters, trimmings, machine: Male	1920 1922 1924	37 30 42	163 116 187	49. 1 50. 3 50. 3	.430 .398 .400	21, 20 20, 05 20, 12			
Female		12 7 11	66 37 48	50. 7 49. 8 49. 9	. 273 . 323 . 288	13. 77 16. 20 14. 37			1
Skivers, upper: Male	1913	32	134	54. 5	. 299	16. 23	100	100	100
	1914 1916 1918 1920 1922 1924	29 32 23 29 31 29	116 124 96 87 77 95	54. 4 54. 6 50. 9 48. 1 47. 6 48. 0	. 299 . 311 . 423 . 601 . 595 . 619	16, 13 16, 93 21, 55 28, 58 28, 48 29, 71	100 100 100 93 88 87 88	100 104 141 193 199 207	10 10 13 17 18 18
Female	1913 1914 1916 1918 1920 1922	67 77 113 121 105 94	439 446 591 697 611 539	54. 6 54. 1 54. 0 51. 7 48. 7 48. 6	. 209 . 209 . 209 . 267 . 439 . 430	11. 38 11. 30 11. 26 14. 73 21. 47 20. 84	100 99 99 95 89 89	100 100 100 128 208 206	10 9 9 12 18
Cutters, linings, hand:	1924	88 58	233	49. 0	. 670	23. 13 32, 88	90	226	20
Famala	1920 1922 1924	66 73	233 229 285	48. 0 48. 4	. 670 . 684 . 585	32, 88 32, 82 28, 31			****
Cutters linings machine	1924	2	2	49. 0	.413	20. 24			
Male	1920 1922 1924	48 42 48	111 98 133	49. 2 49. 6 49. 2	. 562 . 552 . 577	27. 82 27. 58 28. 39		*****	
FemaleSole leather department	1922 1924	2 2	2 2	51. 0 49. 0	. 337	17. 01 22. 93			****
Cutters, outsole: Male	1913 1914 1916 1918 1920 1922 1924	42 47 64 76 60 52 53	196 225 345 416 331 264 269	55. 4 55. 0 54. 7 52. 1 48. 4 48. 5 48. 4	. 303 . 302 . 307 . 405 . 718 . 706 . 731	16. 69 16. 64 16. 74 21. 02 34. 79 34. 09 35. 38	100 99 99 94 87 88 87	100 100 101 134 236 233 241	10 10 10 10 12 20 20 21
Cutters, insole: Male	1920 1922	40 43	184 193	48, 4 48, 3	. 692	33. 55 32. 77		****	
Rounders, outsole or insole: Male	1924 1920 1922	73 76	298 161 158	48. 4 48. 8 48. 9	.700 .578 .563	28, 21 27, 48			***
Female	1924 1920 1922	80	153 12 5	49. 1 48. 5 48. 8	.591	29. 02 19. 90 13. 04			
Channelers, outsole or insole:	1924	75	196	49. 1 55. 4	0. 333	21. 75 18. 42	100	100	1
Female	1914 1916 1918 1920 1922 1924	77 107 122 108 89 88	213 255 268 240 198 207	55. 2 55. 0 52. 5 48. 8 49. 3 49. 1	. 333 . 331 . 340 . 430 . 699 . 649 . 669	18. 42 18. 24 18. 69 22. 42 34. 23 32. 02 32. 85	100 100 99 95 88 89	99 102 129 209 195 201	1 1 1 1 1 1
Female	1922 1924	4	5	50. 0 48. 9	. 421	21. 04 24. 40			

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924—Continued

LL-TIME DUSTRY TO 1924-

numbers erage—

Full-time ngs earn-per nour per week

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Continued									
The state of the s				Aver-	Aver-	Aver-		x num	
	Year	Num- ber of estab- lish- ments	Num- ber of em- ploy- ees	age full- time hours per week	age earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Sole leather department-Concluded									
Cutters, top and heel lifts, machine:	1920 1922 1924	47 43 33	232 364 265	49. 0 48. 5 48. 3	\$0. 513 . 537 . 512	\$24.95 25.99 24.73			
Heel builders, hand:	1920	15	58	50. 1	. 568	28. 44			
Male	1922 1924	15 15	49 22	50. 4 50. 1	. 495	24. 74 25. 35			
Female	1920 1922 1924	8 9 7	60 34 20	46. 8 48. 0 48. 6	. 415 . 429 . 477	19. 40 20. 46 23. 18			
Heel builders, machine: Male	1920 1922 1924	37 33 25	90 119 71	49, 2 48, 9 48, 6	. 470 . 497 . 512	23. 19 24. 29 24. 88			
Female	1920 1922 1924	16 17 16	90 214 156	47. 3 48. 3 48. 1	. 407 . 411 . 449	19. 38 19. 85 21. 60			
Fitting or stitching department									
Stampers, linings or uppers: Male	1920 1922 1924	12 11 21	19 14 57	48. 1 49. 4 49. 7	.411	20. 59 20. 36 18. 24			
Female	1920 1922 1924	91 90 92	281 426 444	48. 0 48. 6 46. 6	. 369	19. 02 17. 87 17. 71			
Cementers and doublers, hand and machine: Male	1920 1922 1924	14 8 18	29		. 528	21. 78 25. 45 16. 47			
Female	1920 1922 1924	107 89 95	913	48. 5	. 337	17. 29 16. 36 16. 10			
Folders, hand and machine: Male	1922 1924	5							
Female	1920 1922 1924	74 71 94	826	48.4	.413	19.86	3		
Perforators: Male	1920 1922 1924	16 28 21	60	49.	. 482	23, 68	4		
Female	1920 1922 1924	84	422	48.	3 .444	21.4	3		
Tip stitchers: Male			7 19						
Female	1913 1914 1916 1918 1920 1922 1924	8 12 12 10 9	3 34 4 44 5 43 6 35	54. 2 54. 7 51. 5 48. 2 48.	2 .215 0 .23 8 .285 7 .445 6 .425	9 11.8 1 12.4 8 14.8 8 21.7 4 20.6	7 99 5 99 6 99 7 8 88 8	9 10 9 10 5 13 9 20 9 19	0 99 5 104 2 124 4 182 4 173
Closers or seamers: Male	1920 1922 1924	3	8 1	9 47. 2 48. 1 48.	2 .48	7 22.8	38		

[1255]

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924—Continued

Anna Language of L	985078	Num-	Num-	Aver-	Aver-		Ind	ex nun averag	nbers se—
Department, occupation, and sex	Year	ber of estab- lish- ments	ber of em- ploy- ees	full- time hours per week	age earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full time earn ings per weel
Fitting or stitching department—Contd.	TUZ			1-0			1		
Closers or seamers—Concluded Female	1920 1922 1924	97 92 98	441 409 383	48. 8 49. 1 49. 3	\$0, 399 . 370 . 397	\$19.48 18.23 19.57			
Seam rubbers: Male	1920 1922 1924	16 18 14	28 26 19	48. 7 47. 6 48. 4	. 404 . 348 . 411	19, 23 16, 48 19, 89			
Female	1920 1922 1924	69 49 53	157 99 88	49. 1 48. 5 47. 8	. 308 . 302 . 323	15, 21 14, 79 15, 44			
Lining makers: Male	1922 1924	4 4	8 5	46. 5 47. 6	. 571	25. 29 27. 66	*****		
Female	1913 1914 1916 1918 1920 1922	80 84 126 132 112 97	854 852 1, 004 1, 138 1, 149 1, 055	54. 6 54. 1 53. 9 51. 5 48. 6 48. 8	. 190 . 189 . 198 . 241 . 380 . 362	10. 38 10. 21 10. 69 12. 35 18. 40 17. 71	100 99 99 94 89 89	100 99 104 127 199 191	16 9 10 11 17
Closers-on: Male	1924 1922 1924	100 3 3	1, 012	49. 3 49. 3 49. 9	. 369 . 752 . 459	18. 19 36. 71 22. 90	90	194	17
Female	1913 1914 1916 1918 1920 1922 1924	74 77 83 90 47 35 22	349 347 360 351 133 129 63	54. 4 53. 9 53. 6 52. 0 49. 4 50. 2 49. 5	. 194 . 193 . 204 . 237 . 363 . 394 . 415	10. 53 10. 42 10. 95 12. 28 17. 94 19. 88 20. 55	100 99 99 96 91 92 91	100 99 105 122 185 203 214	10 9 10 11 17 18 19
Male	1920 1922 1924	16 19 21	57 64 78	48. 0 48. 1 47. 0	. 639 . 657 . 675	30. 74 31. 59 32. 33			
Female	1913 1914 1916 1918 1920 1922 1924	82 86 128 135 112 100 97	1, 070 1, 076 1, 427 1, 364 1, 187 1, 195 1, 184	54. 6 54. 2 54. 0 51. 6 48. 5 48. 8 49. 3	. 210 . 212 . 220 . 285 . 451 . 433 . 462	11. 47 11. 48 11. 87 14. 57 21. 94 21. 16 22. 77	100 99 99 95 89 89	100 101 105 136 213 206 220	10 10 10 12 19 18 19
Binders: Male	1922 1924	5 8	16 15	48. 5 47. 6	. 683 . 732	32. 92 34. 84		*****	
Female	1920 1922 1924	36 49 65	141 257 361	50. 3 49. 3 49. 1	, 455 , 485 , 478	23. 03 23. 75 23. 47			
Male	1922	4	4	50. 5	. 395	19. 45	~~~~		
Female	1913 1914 1916 1918 1920 1922 1924	74 80 113 82 46 47 44	517 506 466 140 70 83 66	54. 7 53. 9 53. 8 52. 2 49. 3 49. 6 49. 3	. 194 . 198 . 217 . 262 . 397 . 369 . 380	10. 60 10. 70 11. 65 13. 62 19. 48 18. 20 18. 73	99 98 98 95 90 91 90	100 102 112 135 202 190 196	10 10 11 12 12 12 12 12 12 12 12 12 12 12 12
Male Female	1920 1922 1913 1914 1916 1918	4 4 72 66 94 64 . 33 44 38	8 5 232 198 195 102 44 76 68	51. 8 53. 3 54. 8 53. 7 53. 8 52. 7 48. 4 49. 2 49. 4	. 392 . 316 . 199 . 197 . 211 . 230 . 388 . 338 . 338	20. 26 16. 81 10. 95 10. 57 11. 32 12. 06 18. 56 16. 51 16. 40	100 98 98 96 88 90 90	100 99 106 116 194 170 167	10 9 10 11 16 15

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924—Continued

ULL-TIME NDUSTRY 3 TO 1924

numbers verage—

Earn-time earn-ings per nour per week

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Arrest Arrest Married Married Arrest	47	NT.	******	Aver-	Aver-	Aver-		ex nun averag	
Department, occupation, and sex	Year	Number of estab- lish- ments	Num- ber of em- ploy- ees	age full- time hours per week	age earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Fitting or stitching department—Concld.					-				
Eyeleters: Male	1920 1922 1924	31 31 33	75 73 68	48. 4 48. 3 49. 2	\$0.585 .514 .578	\$28. 08 24. 64 28. 44			
Female	1918 1920 1922 1924	92 92 71 69	223 232 160 119	51. 7 48. 7 49. 2 49. 1	. 268 . 443 . 415	13. 64 21. 61 20. 26 21. 80			
Vampers: Male	1913 1914 1916 1918 1920 1922 1924	66 65 82 83 55 52 49	554 534 624 573 400 357 304	54. 8 54. 6 54. 6 51. 5 47. 9 47. 8 48. 2	. 320 . 312 . 333 . 442 . 704 . 628 . 707	17. 47 17. 04 18. 14 22. 73 33. 85 30. 09 34. 08	100 100 100 94 87 87 88	100 98 104 138 219 196 221	100 98 104 130 194 172 195
Female	1913 1914 1916 1918 1920 1922 1924	79 85 121 132 111 98 99	1, 072 1, 116 1, 383 1, 477 1, 313 1, 142 1, 053	54. 7 54. 1 53. 9 51. 7 48. 8 49. 0 49. 4	. 246 . 243 . 254 . 312 . 512 . 480 . 519	13. 45 13. 14 13. 66 16. 11 26. 09 23. 54 25. 64	100 99 99 95 89 90	100 99 103 127 206 195 211	100 98 102 120 187 178 191
Barrers:	1922	5	6	50. 0	. 472	23. 17			
Female	1920 1922 1924	69 64 62	138 110 106	48. 5 48. 7 49. 1	. 393 . 368 . 393	19. 21 17. 93 19. 30			
Tongue stitchers:	1922 1924	1 4	1 4	44. 0 48. 3	. 965	42. 46 17. 87			
Female	1920 1922 1924	69 . 63 . 62	194 205 159	48. 8 48. 7 49. 0	. 350 . 362 . 413	16. 95 17. 75 20. 24			
Fancy stitchers:	1922 1924	8 19	18 56	48. 3 48. 3	. 561	27. 19 29. 70		*****	
Female	1920 1922	43 75	179 764	47. 7 48. 6	. 460	22. 50 21. 54		******	
Backstay stitchers: Male	1924 1922 1924	86 4 5	1, 467 9 16	49. 1 46. 7 48. 5	. 451 . 769 . 682	22. 14 35. 03 33. 08			*****
Female	1913 1914 1916 1918 1920 1922	78 82 125 124 98 83	389 432 575 560 428 402	54. 7 54. 3 54. 0 51. 9 48. 7 48. 8	. 195 . 197 . 213 . 261 . 471 . 378	10. 62 10. 68 11. 47 13. 49 20. 52 18. 47	100 99 99 95 89 89	100 101 109 134 214 194	100 101 108 127 193 174
Table workers:	1924 1922 1924	67 3 4	267 11 4	49. 2	. 327	20. 32 16. 11 13. 73	90	212	191
Female	1920 1922	47 86	332 797	48. 5 47. 3 48. 7	. 283	15. 78 13. 85			
Lacers: Male	1924 1920 1922 1924	80 9 8 7	700 14 12 13	48. 6 48. 1 47. 8 48. 0	. 302 . 452 . 325 . 430	14. 68 21. 48 14. 39 20. 64			
Female	1920 1922 1924	86 71 67	193 142 124	48. 5 48. 5 49. 3	. 350 . 367 399	16. 94 17. 86 19. 67			

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924-Continued

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	- COUNTY	Num-	Num-	Aver-	Aver-	Aver-	Inde	ex nun averag	ibers ge—
Department, occupation, and sex	Year	ber of estab- lish- ments	ber of em- ploy- ees	full- time hours per week	earn- ings per hour	full- time earn- ings por week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Lasting department Last pickers or sorters:				le us		(teg)			
Male	1920 1922 1924	72 81 85	271 238 262	48. 3 48. 8 48. 3	\$0.458 .426 .455	\$22.05 20.78 21.98			
Female	1922	1	3	48. 0	. 269	12.91			
Assemblers, for pulling-over machine: Male	1913 1914 1916 1918 1920 1922 1924	54 64 97 102 88 70 80	597 708 801 726 691 593 417	55. 4 55. 3 55. 0 52. 6 48. 6 49. 0 49. 3	. 272 . 279 . 291 . 398 . 642 . 567 . 554	15. 01 15. 37 16. 02 20. 85 31. 49 27. 94 27. 31	100 100 99 95 88 88 88	100 103 107 146 235 208 204	100 102 107 139 210 181 182
Female	1920 1922 1924	23 15 8	77 58 33	48. 5 49. 0 50. 0	. 500 . 434 . 399	24. 20 21. 35 19, 95			
Pullers-over, hand: Male	1913 1914 1916 1918 1920 1922 1924	52 49 46 35 25 16 14	937 749 543 344 211 97 50	55. 3 54. 9 54. 8 51. 7 47. 0 46. 7 49. 3	. 333 . 350 . 347 . 478 . 803 . 813 . 704	18. 37 19. 21 18. 99 24. 62 38. 17 38. 29 34. 71	100 99 99 93 85 84 89	100 105 104 144 241 244 211	100 105 103 134 208 208 189
Pullers-over, machine: Male	1913 1914 1916 1918 1920 1922 1924	60 71 116 124 101 91 92	421 443 640 612 552 554 467	55. 4 55. 5 55. 0 52. 6 48. 8 48. 9 49. 3	. 351 . 356 . 377 . 512 . 837 . 732 . 737	19. 42 19. 66 20. 70 26. 77 41. 08 36. 06 36. 34	100 100 99 95 88 88 89	100 101 107 146 238 209 210	100 101 107 138 212 186 187
Side lasters, hand: Male	1913 1914 1916 1918 1920 1922 1924	20 20 40 43 42 31 40	224 237 358 394 445 362 388	54. 2 54. 0 54. 1 51. 9 48. 2 47. 8 48. 1	. 303 . 308 . 325 . 440 . 706 . 614 . 690	16. 40 16. 59 17. 57 22. 74 35. 35 29. 28 33. 19	100 100 100 96 89 88 89	100 102 107 145 234 203 228	100 101 107 139 216 179 202
Side lasters, machine: Male	1913 1914 1916 1918 1920 1922 1924	16 16 45 57 51 56 64	155 167 291 292 322 338 402	56. 1 54. 3 54. 9 52. 2 48. 9 49. 3 49. 5	. 323 . 343 . 339 . 468 . 776 . 620 . 617	18. 23 18. 54 18. 53 24. 35 37. 68 30. 79 30. 54	100 97 98 93 87 88 88	100 106 105 145 239 192 191	100 102 102 134 207 169 168
Bed machine operators: Male	1913 1914 1916 1918 1920 1922 1924	65 70 93 104 93 86 92	1, 220 1, 173 1, 336 1, 303 1, 252 1, 167 1, 092	55. 2 55. 1 55. 0 52. 1 48. 7 48. 9 49. 1	. 330 . 321 . 349 . 500 . 791 . 668 . 692	18. 21 17. 68 19. 13 25. 98 38. 61 32. 78 33. 96	100 100 100 100 94 88 89 89	100 97 106 152 239 202 210	190 97 105 143 212 180 187
Hand-method lasting machine operators: Male	1913 1914 1916 1918 1920 1922 1924	41 41 66 59 30 27 12	449 456 556 411 213 178 97	55. 3 55. 5 55. 1 52. 9 48. 9 49. 3 48. 5	. 357 . 348 . 361 . 479 . 805 . 735 . 694	19. 72 19. 25 19. 82 25. 22 39. 06 36. 38 33. 66	100 100 100 96 88 89 88	100 97 101 134 223 206 194	100 98 101 128 198 194 171

WERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924— Continued

LL-TIME DUSTRY 3 TO 1924

numbers verage-

arn-ngs per ings lour per

181 182

107

179

171

per week

special in the second				Aver-	Aver-	Aver-		ex num averag	
pepartment, occupation, and sex	Year	Number of estab- lish- ments	Num- ber of em- ploy- ees	age full- time hours per week	age earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Lasting department—Concluded									
Turn lasters, hand:								1	1
Male	1913 1914 1916 1918 1920 1922 1924	28 31 42 35 33 30 31	524 689 974 752 666 571 496	55. 0 54. 4 54. 9 53. 8 47. 1 48. 5 48. 2	\$0. 310 . 324 . 365 . 453 . 889 . 732 . 790	\$17. 00 17. 56 20. 07 24. 34 42. 49 35. 76 38. 08	100 99 100 98 86 88 88	100 105 118 146 284 236 255	100 103 118 143 250 210 224
Turn lasters, machine; Male	1920 1922 1924	10 7 7	102 31 26	48. 6 48. 1 48. 5	.756 .630 .604	37. 35 30. 50 29. 29		*****	
Turn sewers:	1916	29	81	54. 4		24. 00			
Male	1918 1920 1922 1924	25 30 25 30	67 71 55 63	53. 7 49. 1 49. 8 49. 3	. 442 . 500 . 940 . 801 . 819	24. 00 26. 75 46. 26 40. 14 40. 38			
Tack pullers, hand and machine:	1920	70	425	48. 5	. 459	22. 12			
Maic	1922 1924	62 79	348 331	48. 6 48. 9	.423	20. 61 21. 32			
Female Bottoming department	1920 1922 1924	7 5 2	21 23 7	49. 0 48. 9 50. 0	. 349 . 299 . 375	16. 84 14. 57 18. 75			
G			-33				-		
Goodyear welters: Male	1913 1914 1916 1918 1920 1922 1924	70 74 89 93 80 74 76	472 439 467 469 415 375 336	55. 3 55. 2 54. 9 52. 3 48. 6 48. 4 48. 7	. 501 . 503 . 520 . 620 . 978 . 889 . 929	27. 60 27. 68 28. 50 32. 29 47. 81 43. 30 45. 24	100 100 99 95 88 88 88	100 100 104 124 194 177 185	100 100 103 117 173 157
Welt beaters and slashers: Male	1920 1922 1924	70 63 61	156 107 107	48. 6 48. 9 48. 8	. 591 . 531 . 533	28. 85 25. 98 26. 01			
Bottom fillers, hand and machine: Male	1920	69	131	48.7	. 570	27. 20			
1 40 00 00 00 00 00 00 00 00 00 00 00 00	1922 1924	69 66	125 126	48. 7 49. 1	.500	24. 45 25. 09			
Female	1922 1924	1 3	2 3	48. 0 50. 3	. 615	29. 52 11. 97			
ole cementers, hand and machine:	1920 1922	70 68	134 143	48. 8 48. 8	.428	20. 85 20. 11			
W 80 1512 to 144	1924	59	110	49. 0	. 432	21.17			
Female	1920 1922 1924	20 8 9	30 10 14	48. 9 50. 3 50. 7	.339 .343 .373	16. 33 17. 41 18. 91			
ole layers, hand: Male	1920 1922 1924	17 7 9	43 9 26	49. 4 47. 1 51. 6	. 595 . 619 . 461	28. 39 29. 15 23. 79		*****	
ole layers, machine:		13.5	100					1	1
Male	1920 1922 1924	77 79 79	206 229 221	48. 4 48. 6 48. 9	.718 .645 .616	34. 39 31. 32 30. 12			1
Female	1922	1	1	50. 0	. 384	19. 22		1	

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AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924—Continued

	Land	Num-	Num-	Aver-	Aver-		Inde	ex nun averag	ibers
Department, occupation, and sex	Year	ber of estab- lish- ments	ber of em- ploy- ees	full- time hours per week	earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Bottoming department-Continued.				1	C 12 1 mm				
Rough rounders: Male	1913 1914 1916 1918 1920 1922 1924	69 73 91 97 82 75 76	265 252 296 285 240 228 212	55. 2 55. 1 54. 9 52. 4 48. 7 48. 7	\$0. 497 . 503 . 491 . 593 . 938 . 818 . 846	\$27, 37 27, 64 26, 89 31, 99 45, 68 40, 00 41, 20	100 101 99 95 88 88 88	100 101 99 119 187 165 170	100 101 98 117 167 146 151
FemaleChannel openers and channel closers:	1922	1	2	50.0	. 514	25. 71			*****
Male	1922 1924	84 77 75	280 255 243	49. 0 49. 2 48. 9	. 491 . 443 . 480	23, 75 21, 76 23, 47			
Female	1920 1922 1924	17 14 4	44 29 10	49. 8 50. 0 50. 8	. 348 . 380 . 253	17. 66 19. 64 12. 85			
Goodyear stitchers: Male	1913 1914 1916 1918 1920 1922 1924	70 74 97 105 86 77 79	642 594 656 680 590 543 505	55. 2 55. 1 54. 8 52. 4 48. 6 48. 6 48. 8	. 399 . 410 . 437 . 527 . 822 . 755 . 773	21. 96 22. 57 23. 87 27. 47 40. 07 36. 67 37. 72	100 100 99 95 88 88 88	100 103 110 132 205 190 194	100 103 109 125 182 167 172
Female	1922	1	5	50.0	. 408	20, 40		****	
MaleStitch separators:	1913 1914 1916 1918 1920 1922 1924	32 39 61 62 45 39 34	136 147 210 203 158 138 104	55. 6 55. 7 55. 2 52. 9 49. 4 50. 2 50. 3	.319 .338 .349 .449 .712 .659	17. 70 18. 77 19. 51 23. 56 35. 53 33. 38 32. 39	100 100 99 95 89 90	100 106 109 141 223 207 202	100 106 110 133 201 189 183
MaleFemale	1920 1922 1924 1922	63 45 48	156 108 91 4	49. 0 48. 7 49. 1 47. 8	. 563 . 498 . 558	27. 16 24. 45 27. 40 18. 89	*****		
Levelers: Male	1913 1920 1922 1924 1922	75 94 96 95 2	289 323 318 315	55. 2 48. 9 49. 0 49. 1 51. 7	. 304 . 654 . 580 . 597	16. 74 32. 09 28. 43 29. 31 19. 14	100 89 89 89 89	100 214 191 196	100 192 170 175
Heelers, leather: Male Heelers, wood:	1913 1914 1916 1918 1920 1922 1924	72 84 130 137 111 98 98	291 324 440 419 382 348 290	55. 3 55. 3 55. 0 52. 8 48. 7 48. 9 49. 3	. 424 . 402 . 430 . 502 . 832 . 759 . 768	23. 32 22. 18 23. 59 26. 37 40. 73 37. 15 37. 86	100 100 99 95 88 88 88	100 95 101 118 196 179 181	100 90 101 113 173 156 160
Male	1918 1920 1922 1924	18 33 27 38	248 533 245 403	54. 1 47. 4 47. 9 48. 1	. 477 . 899 . 706 . 690	25. 61 42. 92 33. 54 33. 19			
Heel trimmers or shavers: Male Male	1913 1914 1916 1918 1920 1922 1924	81 85 121 128 103 94 96	277 277 367 350 284 246 213	55. 4 55. 2 54. 9 52. 6 48. 8 48. 9 49. 1	. 448 . 433 . 449 . 535 . 897 . 853 . 793	24. 74 23. 88 24. 55 27. 99 44. 26 38. 04 38. 94	100 100 99 95 88 88 88	100 97 100 119 199 190 177	100 97 98 113 179 156

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME BARNINGS PER W EEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924—Continued

ULL-TIME NDUSTRY 3 TO 1924-

x numbers verage—

Earn-ings per hour per

189 183

Week

that the wife out		Num-	Num-	Aver-	Aver-	A ver-		ex nun averag	
Department, occupation, and sex	Year	ber of estab- lish- ments	ber of em- ploy- ees	full- time hours per week	age earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Bottoming department—Concluded									
it al beonstore								-	
Male	1913 1914 1916 1918 1920 1922 1924	75 82 111 113 100 80 79	171 173 232 218 195 161 131	55. 4 55. 3 54. 8 52. 9 48. 8 49. 2 48. 9	\$0. 313 . 303 . 319 . 412 . 725 . 587 . 588	\$17. 27 16. 71 17. 50 21. 70 35. 38 29. 05 28. 75	100 100 99 95 88 89 88	100 97 102 132 230 188 188	10 9' 10 12 20 16 16
Female	1922 1924	1 3	1 3	52. 5 49. 5	. 298	15. 64 16. 38			
Edge trimmers: Male	1913 1914 1916 1918 1920 1922 1924	81 85 129 138 112 100 102	838 886 1, 081 1, 015 828 789 686	55, 4 55, 1 54, 9 52, 5 48, 7 48, 9 49, 1	. 410 . 400 . 423 . 545 . 908 . 764 . 767	22. 66 22. 01 23. 16 28. 44 44. 19 37. 36 37. 66	100 99 99 95 88 88 88	100 98 103 133 220 186 187	100 97 105 126 195 165
Male	1920 1922 1924	79 68 26	153 96 32	49. 2 49. 2 48. 2	. 604 . 547 . 563	29, 57 26, 95 27, 14			
Finishing department Buffers:				-					
Male	1913 1914 1916 1918 1920 1922 1924	72 81 129 129 111 98 99	358 396 535 476 449 408 361	55. 3 55. 3 54. 9 52. 7 48. 8 49. 0 49. 4	.318 .309 .327 .424 .729 .630 .614	17. 52 17. 05 17. 92 22. 20 35. 69 30. 95 30. 33	100 100 99 95 88 89 89	100 97 103 133 228 198 193	100 97 102 124 204 177 177
Female	1922 1924	2 3	2 6	48, 8 52, 0	. 493	23. 82 18. 82			
Edge setters: Male	1913 1914 1916 1918 1920 1922 1924	77 86 131 138 112 99 102	826 872 966 924 845 779 681	55. 3 55. 2 54. 9 52. 7 48. 7 48. 9 49. 1	. 411 . 410 . 414 . 525 . 881 . 757 . 756	22. 70 22. 54 22. 62 27. 57 42. 84 37. 02 37. 12	100 100 99 95 88 88 88	100 100 101 128 212 184 184	10 9 10 12 18 16 16
Heel scourers:	1012	70	204	EE A		17 95	100	100	10
Male	1913 1914 1916 1918 1920 1922 1924	78 84 125 129 108 97 98	364 372 504 470 451 421 378	55. 4 55. 3 55. 0 52. 7 48. 7 48. 9 49. 2	.314 .310 .346 .438 .732 .607 .621	17. 35 17. 10 18. 94 22. 92 35. 38 29. 79 30. 55	100 100 99 95 88 88 89	99 110 139 231 193 198	100 90 100 133 204 173 170
Heel burnishers: Male	1913 1914 1916 1918 1920 1922 1924	75 84 127 128 109 92 91	280 283 367 325 304 300 265	55. 5 55. 5 55. 2 52. 8 48. 7 48. 9 50. 0	.317 .322 .325 .433 .710 .584 .584	17. 54 17. 86 17. 84 22. 66 34. 50 28. 75 29. 20	100 100 99 95 88 88 90	100 102 103 137 222 184 184	10 10 10 12 19 16 16
Brushers: Male	1920 1922 1924	86 80 80	300 298 303	48. 4 48. 9 49. 2	. 476 . 431 . 498	22, 96 21, 10 24, 50			
Female	1920 1922	17 10 12	36 24	49. 6 50. 5	, 350 , 324	16. 62 16. 42 22, 43			
Shoe cleaners: Male	1924 1920 1922 1924	34 36 38	109 150 115	50, 4 48, 1 49, 0 48, 8	. 445 . 488 . 431 . 416	23, 10 21, 15 20, 30			
Female	1920 1922 1924	28 33 43	175 193 176	48. 8 48. 1 49. 0	. 337 . 325 . 340	16, 09 15, 79 16, 66			

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT, OCCUPATION, AND SEX, 1913 TO 1924—Concluded

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mademan rabul -terr A -terr A -terr A		Num-	Num-	Aver-	Aver-	A ver-	Inde	ex nun averag	bers e—
Department, occupation, and sex	Year	ber of estab- lish- ments	ber of em- ploy- ees	full- time hours per week	age earn- ings per hour	full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Ful tim earn ing per wee
Finishing department—Concluded				lo l		-			-
Last pullers: Male	1920 1922 1924	97 88 91	266 233 228	48. 9 49. 0 49. 7	\$0, 525 . 460 . 471	\$25, 34 22, 74 23, 41	*****	*****	
Female	1922	1	1	48.0	. 187	8, 98			
Treers: Male	1913 1914 1916 1918 1920 1922 1924	73 80 124 125 98 90 93	1, 110 1, 204 1, 652 1, 387 1, 106 970 948	55. 3 55. 3 54. 9 52. 3 48. 3 48. 6 48. 8	. 282 . 279 . 291 . 403 . 683 . 577 . 624	15, 54 15, 38 15, 99 21, 09 33, 18 28, 12 30, 45	100 100 99 95 87 88 88	100 99 103 143 244 205 221	1 1 1 2 1 1 1 1 1
Female	1913 1914 1916 1918 1920 1922 1924	13 18 15 31 37 35 30	110 107 144 211 296 228 184	54. 6 52. 1 53. 1 53. 3 49. 8 49. 3 48. 8	.158 .175 .188 .232 .403 .396 .431	8. 56 9. 06 9. 93 12. 25 20. 07 19. 51 21. 03	100 95 97 98 91 90 89	100 111 119 147 255 251 273	
Male	1920 1922 1924	57 49 48	169 126 102	48. 1 48. 3 48. 9	. 510 . 462 . 511	24. 37 22. 30 24. 99			
Female	1920 1922 1924	87 79 77	711 668 624	47. 7 48. 2 48. 8	.394 .377 .403	18. 69 18. 18 19. 67			
Male	1920 1922 1924	. 11 14 18	16 18 39	47. 6 48. 6 48. 8	. 391 . 395 . 413	18. 47 19. 04 20. 15			
Female	1920 1922 1924	78 73 62	253 288 225	48. 5 49. 0 49. 4	. 369 . 339 . 366	17. 81 17. 35 18. 08		*****	
Sock liners: Male	1920 1922 1924	14 11 17	30 21 37	48. 8 48. 5 49. 7	. 381 . 378 . 307	18. 70 18. 25 15. 26			
Female	1920 1922 1924	95 90 84	321 279 225	48. 7 49. 0 49. 0	. 375 . 355 . 390	18. 13 17. 36 19. 11	*****		
Male.	1920 1922 1924	9 4 7	11 7 16	48. 5 47. 9 48. 4	. 444 . 281 . 344	20. 70 13. 71 16. 65			
Female	1920 1922 1924	89 82 71	304 235 201	48. 7 48. 9 49. 1	. 325 . 304 . 368	15, 64 14, 81 18, 07			
Packers: Male	1920 1922 1924	38 17 17	96 43 37	49. 2 50. 0 48. 9	.472 .477 .458	24, 02 23, 75 22, 40			
Female	1920 1922 1924	100 90 92	503 397 332	48. 3 48. 2 48. 7	.355 .351 .360	17. 10- 16. 97 17. 53			
Other employees:	1914	91	20, 887	55, 0	. 224	12. 29			
Align Andrew Off 15 165 0.45 165	1916 1918 1920 1922 1924	135 143 117	24, 010 23, 324 10, 445 10, 133 9, 140	55. 0 52. 7 48. 7 49. 0 48. 8	. 243 . 327 . 518 . 461 . 479	12. 29 13. 35 17. 17 25. 22 22. 58 23. 38			
Female	1914 1916 1918 1920 1922	89 134	12, 347. 14, 851 16, 607 6, 964 5, 074	54. 0 53. 8 51. 8 48. 6 48. 8	. 168 . 179 . 226 . 361 . 334	9. 05 9. 62 11. 67 17. 73 16. 39			

Wages and Hours of Labor in the Cotton Manufacturing Industry in the United States, 1910 to 1924

JLL-TIME

DUSTRY TO 1924

numbers

our

Sarn- time

earnings

Week

103 136

214 181 196

A VERAGE hourly earnings in the cotton mills of the United States are 151 per cent higher in 1924 than they were in 1913. At the same time they are approximately 23 per cent lower than in 1920. These facts are brought out in a survey of the wages and hours of labor made by the Department of Labor through the Bureau of Labor Statistics in representative cotton mills in 12 States in the early part of this year. In this survey data were obtained from the records of 114 mills and covered 77,995 employees. Of the 114 mills, 6 were in Alabama, 6 in Connecticut, 10 in Georgia, 5 in Maine, 15 in Massachusetts, 5 in New Hampshire, 4 in New York, 27 in North Carolina, 4 in Pennsylvania, 9 in Rhode Island, 20 in South Carolina, and 3 in Virginia. Schedules were taken from January pay rolls in 96 mills, February pay rolls in 17 mills, and a March pay roll in 1 mill.

From the data collected the following table has been made showing the number of employees, average full-time hours per week, average earnings per hour, and average full-time weekly earnings for each of the principal occupations and for a group of "Other employees"

which includes all occupations not presented separately.

The figures for 1924 are shown in comparison with like figures, beginning with 1910, for preceding years taken from former reports of the bureau.

No data are available for 1915, 1917, 1919, 1921 and 1923.

The table also shows index numbers for full-time hours per week, earnings per hour, and full-time weekly earnings, in which the figures for 1913 are used as the base, or 100. Data for some occupations were not secured for 1913, and index numbers are not shown for these occupations. An average increase in wages since 1922 of about 11 per cent is noted. Hours have increased about one-half of 1 per cent during the same period.

WAGES AND HOURS OF LABOR IN THE COTTON MANUFACTURING INDUSTRY IN THE UNITED STATES, 1910 TO 1924

10 ml 11 ml 10 ml 11 ml 10 ml 11 ml	Num- ber	Num-	Aver- age	Aver-	Aver-		Index numbe average	
Occupation, sex, and year	of estab- lish- ments	ber of em- ployees	full- time hours per week	earn- ings per hour	full- time weekly earn- ings	Full- time hours per week	Earn- ings per hour	Full- time weekly earn- ings
Picker tenders:	= //	100	07	200				
Male1920	93	919	52.3	\$0, 436	\$22, 80			
1922	95	777	53. 1	, 305	16, 20			
1924	114	1,048	53, 6	. 331	17.74			
Card tenders and strippers:		7,000	20,0	70.04				
Male1920	96	1, 156	52.9	. 471	24. 92			
1922	96	1,096	53, 5	. 325	17. 39			
1924	114	1, 367	53, 6	. 356	19, 08			
Card grinders:		100	70.1	mini				
Male1920	92	355	52. 5	. 590	30. 98			
1922	94	355 332	52, 9	. 424	22. 43			
1924	- 111	418	52,9	. 470	24. 86			

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WAGES AND HOURS OF LABOR IN THE COTTON MANUFACTURING INDUSTRY IN THE UNITED STATES, 1910 TO 1924—Continued

tton mills of the United	Num-	Num-	Aver-	Aver-	Aver-	Inde	ex numbe average	ers of
Occupation, sex, and year	ber of estab- lish- ments	ber of em- ployees	full- time hours per week	age earn- ings per hour	full- time weekly earn- ings	Full- time hours per week	Earn- ings per hour	Full- time weekly earn- ings
Drawing frame tenders:	Stite	Stati	rods	1 10	men	TT or	1 11	
Male	56 84 84 82 76 82 84 75 79 96	436 750 723 624 660 681 515 567 552 762	59, 5 59, 5 57, 9 58, 0 57, 9 58, 4 57, 3 54, 1 53, 8 54, 9	\$0, 096 . 097 . 108 . 109 . 116 . 126 . 199 . 427 . 270 . 295	\$5.70 5.73 6.22 6.31 6.66 7.32 11.37 23.10 14.53 16.20	103 103 100 100 100 101 99 93 93 95	88 89 99 100 106 116 183 392 248 271	9 9 9 10 10 11 18 36 23 25
Female	27 45 45 32 32 43 55 52 49 55	359 502 525 594 574 660 818 693 623 653	58. 2 57. 8 57. 0 56. 7 55. 5 55. 6 54. 8 50. 5 51. 5	.090 .095 .110 .115 .118 .136 .209 .371 .276	5. 20 5. 46 6. 23 6. 50 6. 51 7. 53 11. 40 18. 74 14. 21 . 15. 95	103 102 101 100 98 98 97 89 91	78 83 96 100 103 118 182 323 240 270	8 8 9 10 10 11 17 28 21 24
Male	100 103 92 92 112	834 766 695 689 859	57. 5 56. 7 53. 0 53. 5 53. 5	. 192 . 307 . 551 . 390 . 421	11. 21 17. 22 29. 20 20. 87 22. 52 10. 18			
1918 1920 1922 1924	17 11 15 9	74 52 73 37	54. 1 49. 0 50. 1 50. 8	. 257 . 499 . 388 . 448	13. 89 24. 45 19. 44 22. 76			
Speeder tenders: Male	32 62 62 61 58 95 98 87 90 109	426 623 666 745 799- 1, 739 1, 478 1, 506 1, 745 2, 177	61. 4 61. 2 59. 7 59. 8 59. 3 58. 5 58. 2 54. 2 54. 1 54. 3	. 131 . 135 . 142 . 145 . 153 . 174 . 265 . 533 . 358 . 394	8. 03 8. 24 8. 47 8. 72 9. 04 10. 13 15. 28 28. 89 19. 37 21. 39	103 102 100 100 99 98 97 91 90	90 93 98 100 106 120 183 368 247 272	1 1 1 1 3 2 2
Female	57 82 82 79 79 95 100 82 89	1, 175 1, 753 1, 784 1, 946 2, 001 2, 986 3, 214 2, 476 2, 372 2, 703	57. 8 57. 9 56. 6 56. 5 55. 8 55. 6 55. 0 50. 2 51. 0 51. 2	. 133 . 136 . 149 . 153 . 155 . 188 . 277 . 486 . 369 . 411	7. 68 7. 86 8. 42 8. 61 8. 61 10. 38 15. 10 24. 40 18. 82 21, 04	102 102 100 100 99 98 97 89 90 91	87 89 97 100 101 123 181 318 241 269	1 1 1 1 2 2 2 2
Male	14 16 16 16 14 17 17 17 14 11 8	222 288 266 258 245 334 303 253 220 186	57. 0 56. 8 55. 7 55. 6 54. 9 54. 7 54. 3 48. 9 50. 0 49. 1	. 219 . 255 . 279 . 281 . 291 . 345 . 487 . 826 . 638 . 746	12, 50 14, 44 15, 48 15, 58 15, 95 18, 85 26, 40 40, 39 31, 90 36, 63	103 102 100 100 99 98 98 88 90 88	78 91 99 100 104 123 173 294 227 265	
Male	36 46 49 49 38 41 53 34 49	261 700 564 530 483 489 383 345 547 906	57. 2 57. 2 56. 7 56. 9 54. 7 56. 6 54. 3 50. 7 53. 4 53. 2	. 120 . 126 . 144 . 143 . 150 . 164 . 248 . 475 . 292	6. 83 7. 18 8. 14 8. 07 8. 19 9. 21 13. 48 24. 08 13. 59 19. 63	101 101 100 100 96 99 95 89 94	84 88 101 100 105 115 173 332 204 258	22 Part 22 Par

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WAGES AND HOURS OF LABOR IN THE COTTON MANUFACTURING INDUSTRY IN THE UNITED STATES, 1910 TO 1924—Continued

	Num- ber	Num-	Aver- age	Aver-	Aver-		ex numbe average	
Occupation, sex, and year	of estab- lish- ments	ber of em- ployees	full- time hours per week	earn- ings per hour	full- time weekly earn- ings	Full- time hours per week	Earn- ings per hour	Full- time weekly earn- ings
Spinners, frame—Concluded Female	59 88 88 90 90 104 105 95 96 114	3, 704 5, 981 6, 364 6, 762 6, 906 7, 706 7, 752 6, 330 6, 634 8, 314	59. 0 59. 1 58. 0 57. 8 56. 9 57. 2 56. 1 51. 8 52. 6 53. 1	\$0. 108 . 111 . 124 . 128 . 132 . 149 . 233 . 427 . 301 . 319	\$6. 33 6. 51 6. 98 7. 33 7. 45 8. 24 12. 89 22. 12 15. 83 16. 94	102 102 100 100 98 99 97 90 91 92	84 87 97 100 103 116 182 334 235 249	86 89 95 100 102 112 176 302 216 231
Doffers: 1916-1918-1920-1922-1924-	99 102 89 91 109	3, 206 2, 857 2, 717 2, 716 3, 133	57. 9 56. 1 53. 1 53. 5 54. 0	. 139 . 231 . 453 . 302 . 334	8. 15 12. 87 24. 05 16. 16 18. 04			
Female 1916. 1918. 1920. 1922. 1924.	19 26 21 28 27	537 703 543 460 478	55. 0 52. 6 49. 8 50. 9 50. 9	, 162 . 255 . 389 . 324 . 380	8, 92 13, 46 19, 37 16, 49 19, 34			
Spooler tenders: Male1924	8	37	55. 0	. 192	10, 56			
Female	104 105 95 95 113	3, 662 3, 759 3, 010 3, 091 3, 646	57. 2 56. 2 52. 2 52. 7 53. 3	. 137 . 207 . 386 . 264 . 285	7. 73 11. 46 -20. 15 13. 91 15. 19			
Creelers or tiers-in: Male	9 13 21	27 30 59	54. 8 55. 6 55. 5	. 393 . 304 . 298	21. 54 16. 90 16. 54			
Female 1920 1922 1924 Warper tenders:	62 74 84	428 417 543	52. 6 52. 6 53. 0	. 347 . 244 . 272	18. 25 12. 83 14. 42			
Male	25 30 27 35 41	75 82 85 101 133	59. 4 59. 6 55. 8 55. 9 54. 7	. 176 . 243 . 525 . 353 . 388	10. 41 14. 48 29. 30 19. 73 21. 22			
Female 1916 1918 1920 1922 1924	78 82 77 77 77 93	562 595 506 502 544	56. 0 55. 4 50. 9 51. 8 52. 2	. 182 . 259 . 460 . 348 . 391	10. 15 14. 20 23. 41 18. 03 20. 41			*******
Beamer tenders: Male	22 24 21 26 27	328 280 246 313 331	56. 0 56. 3 50. 9 50. 9 51. 7	. 271 . 404 . 711 . 538 . 621	15. 01 22. 63 36. 19 27. 38 32. 11			
Female	5 7 5 5 7	91 113 100 85 108	54. 8 54. 1 48. 3 51. 5 51. 9	. 224 . 315 . 578 . 377 . 448	12. 28 17. 06 27. 92 19. 42 23. 25			
Slasher tenders: Male	87	276 455 449 485 528 581 608 504 547 636	58. 4 58. 5 57. 4 57. 5 56. 8 56. 5 52. 1 52. 7 53, 0	. 178 . 194 . 216 . 212 . 211 . 241 . 340 . 579 . 426 . 467	10. 33 11. 26 12. 34 12. 09 11. 81 13. 48 18. 73 30. 17 22. 45 24. 75	102 102 100 100 99 98 91 92 92	84 92 102 100 100 114 160 273 201 220	85 93 102 100 98 111 155 250 186 205

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Fulltime weekly earnings

WAGES AND HOURS OF LABOR IN THE COTTON MANUFACTURING INDUSTRY IN THE UNITED STATES, 1910 TO 1924—Concluded

to endoun subut	Num		Aver-	Aver-	Aver- age		ex numb	ers of
Occupation, sex, and year	ber of estab lish- ment	ployees	full- time hours per week	earn- ings per hour	full- time weekly earn- ings	Full- time	Earn- ings per hour	Full- time weekly earn- ings
Drawers-in-Concluded	016 96							
Female1	916 86 918 91		56. 0 55. 3	\$0. 191 . 273	\$10.47 15.00			*****
1	920 80	632	50. 7	. 485	24. 59			
1	922 77	664	51.8	. 352	18. 23			
warp-tying machine tenders:			51.8	. 383	19.84			
wit out loss are 1	920 72 922 79	191	52.6 52.9	. 500	31. 03 22. 48	*****		
Loom fixers:	924 91	221	53. 5	. 452	24. 18	******		
Male1	910 59	1, 267	58.7	. 200	11. 64	102		9
THE OF THE P	911 88 912 88	2, 200	58. 6 57. 7	. 203	11.80	102 100	89	9
ME 10 10 MAI 1	913 90	2, 370	57.6	. 224	12. 84 12. 96	100	100	9
10 10 10 10 10 II	914 90	2, 491	56.8	. 233	13. 09	90	103	10
11	916 102 918 103	2,776	56. 8 56. 4	. 270	15. 17 21. 79	99	119 172	11
	920 93	2 366	52. 2	. 685	35. 76	91	302	16
10.10	922 95	2,456	52.9	. 500	26. 45	92	220	20
weavers:	924 114		52. 9 58. 8	. 553	29. 25	92	244	22
Male	910 58 911 88	8,855	58, 8 58, 6	.151	8. 83 9. 08	102 102	89	9
11	912 88	9,775	57.5	. 169	9. 67	100	99	9
19 19	913 89	9, 485	57. 6	. 170	9. 73	100	100	10
	914 89 916 100		56. 8 56. 7	. 176	9. 93 11. 54	99 98	104 121	10
19	918 103	8, 301	56. 2	. 301	16. 78	98	177	117
19 19 19 19 19 19 19 19 19 19 19 19 19 1	920 93	6, 077	51.8	. 573	29, 68	90	337	30
	922 95 924 114	7, 410	52. 6 52. 8	. 389	20. 44 23. 71	91 92	229 264	210
19 Al 19	924 114	1		1	1		1	24
19	911 88	10, 792	57. 8 57. 9	. 147	8. 47 8. 54	102 102	90	9:
(C. C. C	H2 88	10, 998	56. 9	. 163	9. 26	100	99	100
19	913 89 914 89	11, 236 11, 188	56.7	. 164	9. 30	100	100	10
19	101	11, 546	55. 8 55. 7	. 167	9, 30	98	123	100
19	103	10, 993	55. 4	. 285	15. 62	98	174	16
19	920 92 922 95	7, 681	50. 3 51. 6	. 528	26. 56 19. 59	89 91	322 232	28
Trimmers or inspectors: 19	95 114	7, 644 8, 494	51.6	. 429	19. 59 22. 22	91	232 262	211
Male19	20 22	76	53. 4	. 426	22.75	***		40
19	28	78	54. 3	. 251	13. 63		~~~~	
Pomele 19	24 36	158	55. 3	. 304	16, 81			
Female19	10 46	408	58. 3	. 000	5, 78	101	89	90
19	11 75 112 77	712 708	58, 7 57, 7	.103	6. 02 6. 41	101 100	93	9
	13 77	687	57. 9	. 111	6. 39	100	100	10
19	74	720	57. 2	. 113	6.41	- 99 -	102	10
19	716 83 718 87	971	56. 7 55. 6	. 129	7. 25 10. 29	98 96	116 168	113
80 81 19	20 76	1, 045	51. 6	. 333	17. 18	89	300	20
19	22 78	1, 056	52. 5	. 246	12, 92	91	222	200
Other employees.	24 92	1, 602	52. 7 87. 8	. 268	14. 12	91	241	22
Male19	14 88 16 105	29, 861 27, 395	57. 5 57. 7	. 151	8. 59 10. 05			
19	18 106	25, 740	56. 8	. 176	10. 05 15. 18		******	
	20 96	13, 336	52.6	. 419	22. 04			
19	22 97 24 114	14, 991 20, 578	53. 9 53. 7	. 289	15. 58 18. 63			
Female 10	100	1		. 347			1	
Female19	14 88 16 101	12, 143	56. 3 55. 7	. 123	6. 89 7. 82		*******	
Mr. 85 19	18 102	6, 350	54. 4	. 224	12.06		******	
19	20 94	4, 685	51. 1	. 322	16. 45			
19 101 00.11	96 24 110	4, 421 5, 992	51. 8 51. 9	. 244	12. 64 15. 15		******	
	10 50	20, 725	58. 9	. 130	7. 62	102	88	9
19	11 88	34, 397	58.8	. 134	7.81	102	90	9
1001 100 108,51 19	12 88	35, 941	57.8	. 147	8, 41	100	99	9
1001 18 17 100	13 98 14 90	36, 498 78, 582	57. 7 56. 8	. 148	8, 52 8, 63	100 98	100 103	10 10
672 10 11.00 19	16 106	85, 233	56. 9	. 153	10, 08	99	120	11
100	18 106	81, 121	56. 0	. 267	14. 95	97	179	17
19	20 96	59, 548	51. 8 52. 8	. 480	24. 86	90	324	29
10	22 97	62, 833 77, 996	202 N. I	. 330	17. 42	91	222	20

Wages and Hours of Labor in the Sheet-Mill Department of the Iron and Steel Industry, 1924

OR a number of years a gradual reduction has taken place in the working time of employees in the iron and steel industry although the movement to grant shorter hours per day or per week had not, prior to the summer of 1923, received concerted action. While the 8-hour turn had been adopted as the standard working time for all émployees in some entire plants and in certain departments or divisions in other plants, the 12-hour shift still prevailed to a large extent. Some employees also worked 7 days per week.

The blast-furnace department particularly, while showing a gradual decrease from former years in the hours of labor of employees as a whole, was still largely on a 12-hour basis. In sheet and tinplate mills, however, the 8-hour turn had long ago been found to be more profitable for both employer and employee on account of the speeding up of production made possible by the shorter working hours, and except for a small per cent of the employees, mostly laborers, these departments have operated on a three-shift basis for many years. The long turn in puddling mills also had previously been eliminated to a large extent. In other departments the 12hour turn had been largely retained.

In response to a request of the President of the United States in the early part of 1922 a general movement was started in the industry to eliminate the long turn and, so far as possible, the 7-day week. Some time was necessary in order to arrange for such a radical step and it was not until the summer of 1923 that the change was actually

begun.

In February, 1924, the United States Department of Labor, through the Bureau of Labor Statistics, began a study into wages and hours of labor in representative mills in 10 departments of the iron and steel industry of the United States. The bureau has collected data concerning wages and hours of labor of employees in this industry at periodic intervals for a number of years, and while the continuity of the comparisons are of extreme importance the working-time of employees in 1924 is of unusual interest following the general reduction in hours of labor. The bureau could not undertake a complete census, but data were obtained from a sufficient number of representative plants to illustrate conditions in the industry.

Although the inquiry has not yet been completed for many of the departments in the industry, the summary figures for the sheetmill department are herewith presented. In the succeeding numbers of the Monthly Labor Review will be presented summary figures for the other departments as the data therefor become

available.

As shown by a combination of the data for the principal productive occupations, there was practically no change in the customary full-time hours per week of employees in the sheet-mill branch of the industry in 1924 as compared with former years, for, as stated above, this department has long been on an 8-hour basis and hours are subject to only slight changes from year to year.

Earnings per hour, however, have increased 15 per cent in 1924 as compared with 1922, although they are still 26 per cent below

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ings

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the high average for 1920. As compared with 1913 an increase of 70 per cent is noted in the 1924 figure, and earnings per hour have more than doubled since 1910.

Full-time weekly earnings have followed very closely the course of earnings per hour, as changes in full-time hours were very slight.

Index numbers showing relative changes, as compared with 1913, in customary full-time hours per week, hourly earnings, and full-time weekly earnings in the principal productive occupations of the sheet mill department combined, are shown below:

TABLE 1.—INDEX NUMBERS OF WAGES AND HOURS IN SHEET MILLS, PRINCIPAL PRODUCTIVE OCCUPATIONS COMBINED

196	NIO	- 4	ani
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	Index n	umbers of a	verage-
Year	Customary full-time hours per week	Earnings per hour	Full-time weekly earnings
1910	102	84	85
1911	102	91 93	92
1913	100	100	. 100
1914	100	101	101
1915	101	92	92
1917	104	178	183
1919	99	193	195
1920	100	229	240
1922	101	147	156

Table 2 shows the most significant facts concerning average hours and average earnings for each of the principal productive occupations in sheet mills for the period 1910 to 1924. Data for 1924 were collected from the same 14 plants as were visited in 1922, which constitute about one-third of the plants in the United States. In 1917 only 8 plants were covered. In certain years no data were collected. The index numbers presented in the above table were computed from a combination of the data for the occupations shown below.

The full-time hours per week for the combined principal productive occupations show very little change when 1924 is compared with other years, although when considered separately some variations are noted, as not all of the occupations are on an 8-hour basis. The greatest change has taken place in the occupation of feeders. In 1920 feeders averaged 56.8 hours per week full time, which increased to 61.4 hours in 1922 and dropped to 53.1 hours in 1924.

Also the increase in hourly earnings in 1924 over 1922 is 15 per cent for the principal productive occupations as a whole, while in the individual occupations increases ranging from 9 per cent for sheet heaters (level-handed) and picklers to 26 per cent for rollers (level-handed) are shown. The earnings of laborers increased 18 per cent over 1922, although they are still 22 per cent less than in 1920.

Index numbers for customary full-time hours per week, earnings per hour, and full-time weekly earnings for each occupation for which data are available back to 1913, the base year, are also included in the table. In addition a percentage distribution is made of employees in the several occupations according to their customary full-time hours per week.

TABLE 2.—AVERAGE CUSTOMARY FULL-TIME HOURS PER WEEK, AVERAGE EARNINGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN SHEET MILLS IN THE UNITED STATES, BY OCCUPATIONS, 1910 TO 1924

[1913=100]

						[1913=	= 100]								
		Num-	Aver-	A ver-	A ver-		x nun averag		Per			loyees r week			-time
Year	Num- ber of plants		age full- time hours per week	age earn- ings per hour	age full- time weekly earn- ings	Full- time hours per week	Earn- ings per hour	Full- time week- ly earn- ings	40	Over 44 and un- der 48	48	Over 48 and un- der 60	60	Over 60 and un- der 72	and over
					P	air h	eaters	3							
1910 1911 1913 1914 1915 1919 1920 1922	9 9 9 13 15 15 15 8 11 13 14 14	210 255 249 336 399 354 276 382 521 576 536	42. 7 42. 7 42. 7 42. 8 42. 8 42. 8 43. 7 43. 4 43. 4 43. 3 43. 4	\$0. 466 . 502 . 517 . 543 . 540 . 518 1. 038 1. 046 1. 386 1. 880 1. 027	\$19. 89 21. 42 22. 06 23. 23 23. 10 22. 17 45. 48 45. 40 60. 13 37. 84 44. 50	100 100 100 100 100 100 102 101 101 101	86 92 95 100 99 95 191 193 255 162 189	86 92 95 100 99 95 195 195 259 163 192		(3) (3) (5) (5) (6) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	2 100 2 100				
		1 10	14.1		an e	Roll	ers								
910 991 912 913 914 915 917 1917 1919 1920 1922	9 9 9 13 15 15 11 13 14 14	215 259 252 335 394 -348 276 342 464 501 478	42.7 42.7 42.7 42.8 42.8 42.9 43.7 43.5 43.4 43.8 43.4	\$1. 242 1. 380 1. 416 1. 476 1. 431 1. 280 2. 591 2. 536 2. 976 1. 894 2. 148	\$52. 98 58. 89 60. 41 63. 21 61. 20 54. 80 113. 47 110. 32 129, 10 82. 84 93, 35	100 100 100 100 100 100 102 102 101 102	84 93 96 100 97 87 175 172 202 128 146	84 93 96 100 97 87 180 175 204 131 148	(2) (2) (3) (3) (4) (2) (2) (2) (2) (3) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	(2) (2) (2) (2) (3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	2 100 2 100 3 100 3 100 5 100 2 100 2 100 2 100 2 100 2 100				
					Roller	rs, lev	el-ha	nded							
1920 1922 1924	5 3 7	44 39 114	42. 7 44. 5 42. 9	\$1.516 1.071 1.345	\$64. 73 47. 66 57. 69				(2) (3) 91	(2) (2) (2) 9	² 100 ² 100				
		_ 00	150	Ro	ller's	helpe	rs or	finish	hers		1 pc		1		H
1912 1913 1914 1915 1919 1920 1922	6 8 10 10 10 11 11 11	115 171 264 233 271 437 487 437	42. 7 42. 7 42. 9 42. 9 43. 0 42. 8 42. 9 43. 0	\$0. 474 . 503 . 555 . 461 1. 010 1. 092 . 721 . 865	\$20. 21 21. 48 23. 77 19. 77 43. 43 46. 80 30. 90 37. 28	100 100 100 100 101 100 100 101	94 100 110 92 201 217 143 172	94 100 111 92 202 218 144 174	(2) (2) (3) (2) (2) (2) (2) (2) (2) (3) 83	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	2 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100				
						Roug	hers								
1910 1911 1912 1913 1914 1915 1917 1919 1920 1922	9 9 9 13 15 15 8 11 13 14 14	215 255 252 336 399 353 276 367 528 590 533	42.7 42.7 42.8 42.8 43.7 43.5 43.4 44.3 43.4	\$0. 558 .603 .616 .642 .648 .619 1. 285 1. 289 1. 584 .994 1. 150	\$23. 82 25. 71 26. 29 27. 49 27. 73 26. 51 56. 27 56. 07 68. 69 43. 80 49. 94	100 100 100 100 100 100 102 102 101 104 101	87 94 96 100 101 96 200 201 247 155 179	87 94 96 100 101 96 205 204 250 159 182	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	2 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100				

¹ In earlier reports classified under 3 headings: "72," "Over 72 and under 84," and "84." For this distribution see Bul. No. 353. No employees worked over 72 hours per week in 1924 except 5 picklers, ¹ In earlier reports tabulated only as "48 and under."

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TABLE 2.—AVERAGE CUSTOMARY FULL-TIME HOURS PER WEEK, AVERAGE EARN. INGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN SHEET MILLS IN THE UNITED STATES, BY OCCUPATIONS, 1910 TO 1924—Continued

	or sin	Num-	Aver-	Aver-	Aver-		x nun		Per	cent o	of emp urs pe	loyees r weel	who wer	se full	-tim
Year	Num- ber of plants	of em-	age full- time hours per week	age earn-	age full- time weekly earn- ings	Full- time hours per week	Earn- ings per hour	Full- time week- ly earn- ings	40	Over 44 and un- der 48	48	Over 48 and un- der 60	60	Over 60 and un- der 72	72 and ove
						Catc	hers								
1910	9 9 9 13 15 15 8 11 13 14 14	215 258 252 336 399 350 276 407 552 589 570	42. 7 42. 7 42. 7 42. 8 42. 8 42. 8 43. 7 43. 6 43. 4 43. 3 43. 4	\$0. 544 . 587 . 603 . 629 . 636 . 595 1. 256 1. 199 1. 532 . 962 1. 099	\$23, 19 25, 03 25, 71 26, 92 27, 23 25, 49 54, 92 52, 28 66, 43 41, 57 47, 70	100 100 100 100 100 100 102 102 101 101	87 93 96 100 101 95 200 191 244 153 175	86 93 96 100 101 95 204 194 247 154 177	(3) (3) (3) (3) (3) (3) (3) (4) (3) (4) (7) (7)	(2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	2 100 2 100 2 100 2 100 2 100 2 100 3 100 2 100 2 100 2 100 2 100 2 100				
						Matc	hers								
1910 1911 1912 1913 1914 1915 1917 1919 1920 1922 1924	9 9 9 13 15 15 15 8 11 13 14 14	210 255 249 336 399 354 276 398 642 743 639	42. 7 42. 7 42. 7 42. 8 42. 8 42. 8 43. 7 43. 5 43. 4 43. 3 43. 4	\$0. 387 •418 •429 •448 •484 •475 •946 •981 1. 225 •791 •932	\$16. 53 17. 83 18. 30 19. 16 20. 70 20. 34 41. 39 42. 67 53. 12 34. 06 40. 42	100 100 100 100 100 100 102 102 101 101	86 93 96 100 108 106 211 219 273 177 208	86 93 96 100 108 106 216 223 277 179 211		000000000000000000000000000000000000000	3 100 3 100 2 100 2 100 2 100 2 100 3 100 2 100 2 100 2 100				
						Doub	lers								
1910 1911 1912 1913 1914 1915 1917 1919 1920 1922 1924	9 9 9 13 15 15 8 11 13 14 14	210 252 246 336 399 354 276 437 658 731 661	42.7 42.7 42.7 42.8 42.8 43.7 43.4 43.3 43.4	\$0. 372 . 401 . 412 . 429 . 462 . 453 . 906 . 921 1. 206 . 775 . 909	\$15. 86 17. 10 17. 58 18. 34 19. 75 19. 42 39. 57 39. 97 52. 32 33. 42 39. 42	100 100 100 100 100 100 100 102 101 101	87 93 96 100 108 106 211 215 281 181 212	86 93 96 100 108 106 216 218 285 182 215	(3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	36666666688 2	2 100 2 100 2 100 2 100 3 100 2 100 2 100 2 100 2 100 2 100				
					S	heet 1	Heate	ers							
1910	9 9 9 12 14 14 8 11 13 14 14	215 259 253 307 364 324 276 332 424 499 470	42. 7 42. 7 42. 7 42. 8 42. 8 42. 9 43. 7 43. 5 43. 4 43. 3	\$0. 883 .911 .949 .993 .966 .868 1. 879 1. 849 2. 151 1. 380 1. 559	\$37. 68 38. 88 40. 51 42. 50 41. 34 37. 19 82. 36 80. 43 93. 29 59. 74 67. 68	100 100 100 100 100 100 102 102 101 101	89 92 96 100 97 87 189 186 217 139	89 91 95 100 97 88 194 189 220 141 159	SOCOOCOSOS R	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	3 100 2 100 2 100 3 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100				

1913. 1914. 1915. 1919. 1920.

² In earlier reports tabulated only as "48 and under."

PABLE 2.—AVERAGE CUSTOMARY FULL-TIME HOURS PER WEEK, AVERAGE EARNINGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN SHEET MILLS IN THE UNITED STATES, BY OCCUPATIONS, 1910 TO 1924—Continued

GE EARN. N SHEET led

ose full-time

Over 60 and 72 under over 72

	of mon	Num-	Aver-	Aver-	Aver-		ex nun averag		Per			loyees r week			l-tim
Year	Num- ber of plants	ber of em-	age full- time hours per week	age earn- ings per hour	age full- time weekly earn- ings	Full- time hours per week	Earn- ings per hour	Full- time week- ly earn- ings	40	Over 44 and un- der 48	48	Over 48 and un- der 60	60	Over 60 and un- der 72	72 and over
				SI	heet he	aters,	level	-hane	ded						
1913 1914 1915 1919 1920 1922	2 2 2 3 8 7	14 56 34 15 94 90 115	42.7 42.7 42.7 42.7 43.0 43.3 42.9	\$0. 707 . 762 . 686 1. 316 1. 661 . 995 1. 088	\$30, 17 32, 65 29, 27 56, 19 71, 45 41, 33 46, 29	100 100 100 100 101 101 100	100 108 97 186 235 141 154	100 108 97 186 237 137 153	(*) (*) (*) (*) (*) (*) (*) (*) 93	(2) (2) (2) (2) (2) (2) (2) (3)	2 100 2 100 2 100 2 100 2 100 2 100 2 100				
					Sheet	heate	rs' he	elpers							
1910	8 8 8 10 13 13 6 11 12 13 13 13	174 215 208 230 309 275 216 286 367 454 408	42. 7 42. 7 42. 7 42. 9 42. 8 42. 9 43. 2 43. 1 42. 7 42. 8 42. 9	\$0, 377 . 436 . 439 . 483 . 485 . 458 . 859 . 926 1, 140 . 727 . 804	\$16, 07 18, 59 18, 71 20, 70 20, 73 19, 60 37, 21 39, 91 48, 68 31, 13 38, 51	100 100 100 100 100 100 101 100 100 100	78 90 91 100 100 95 177 192 236 151 185	78 90 90 100 100 95 180 193 235 150 186	(2) (2) (2) (2) (3) (3) (3) (2) (2) (2) (2) (2) (3) (4)	(2) (2) (2) (2) (2) (3) (2) (2) (2) (2) (2) (2)	2 100 3 100 2 100 2 100 2 100 2 100 3 100 2 100 2 100 2 100				
						Shear	men								
1910	7 7 7 8 10 10 7 11 8 12 10	85 104 105 114 136 115 149 221 122 190 159	46. 0 44. 9 44. 9 42. 9 43. 0 43. 5 43. 3 43. 5 43. 3	\$0. 689 . 722 . 768 . 814 . 860 . 827 1. 399 1. 463 1. 891 1. 173 1. 289	\$30. 79 32. 86 34. 67 34. 90 36. 84 35. 48 60. 90 63. 35 82. 22 50. 82 56, 26	107 105 105 100 100 100 101 101 101 101 101	85 89 94 100 106 102 172 180 232 144 158	88 94 99 100 106 102 175 182 236 146 161	(2) (2) (2) (2) (2) (2) (2) (2) (2) (3) (3) (4) (5) (5) (6) (8)	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	2 86 2 90 2 90 2 100 2 100 2 100 2 100 2 100 3 100 3 100 6			14 10 10	
					Shea	rmen	's he	lpers							
910 911 912 913 913 914 915 915 917 919 920	6 6 6 7 9 9 6 11 7 12 8	62 83 77. 111 128 146 120 196 155 265 203	46, 4 44, 9 45, 1 42, 9 43, 8 43, 2 43, 7 43, 7 43, 8	\$0, 261 . 308 . 290 . 251 . 282 . 242 . 533 . 682 . 983 . 642 . 736	\$11. 99 13. 59 12. 88 10. 77 12. 09 10. 59 23. 06 29. 80 42. 91 27. 69 32. 11	108 105 105 100 100 102 101 102 102 101 102	104 123 116 100 112 96 220 272 392 256 293	111 126 120 100 112 98 214 277 398 257 298	(2) (1) (2) (3) (3) (2) (2) (2) (2) (2) (2) (2) (3) (5) (6)	(2) (2) (2) (2) (3) (2) (2) (2) (2) (2) (3) (2) (3)	2 84 2 90 2 90 3 100 2 100 2 95 3 100 3 98 3 100 5 100	2		16 10 10 3	

¹ In earlier reports tabulated only as "48 and under,"

TABLE 2.—AVERAGE CUSTOMARY FULL-TIME HOURS PER WEEK, AVERAGE EARN. INGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN SHEET MILLS IN THE UNITED STATES, BY OCCUPATIONS, 1910 TO 1924—Concluded

B

	To Provi	Num-	Aver-	Aver-	Aver-		x nun averag		Per	cent o	of emp	loyees r weel	who were	se full.	time
Year	Num- ber of plants	ber of em	age full- time hours per week	age earn- ings per hour	age full- time weekly earn- ings	Full- time hours per week	Earn- ings per hour	Full- time week- ly earn- ings	Over 40 and un- der 44	Over 44 and un- der 48	48	Over 48 and un- der 60	60	Over 60 and un- der 72	72 and over
				hey).	ana de la	Ope	ners	l Ind	8						
1910	7 7 7 6 9 9 6 10 6 11 9	138 167 180 168 200 180 175 266 198 415 284	46. 0 45. 2 45. 8 45. 4 42. 8 43. 6 43. 3 43. 6 44. 0 43. 5 43. 5	\$0, 274 . 275 . 289 . 279 . 282 . 273 . 662 . 656 1, 188 . 731 . 806	\$12. 57 12. 35 13. 04 12. 56 12. 06 11. 93 28. 70 28. 60 52. 13 31. 23 34. 99	101 100 101 100 94 96 95 96 97 96 96	98 99 104 100 101 98 237 235 426 262 289	100 98 104 100 96 95 229 228 415 249 279	0.00000000000072		\$ 86 \$ 89 \$ 87 \$ 88 \$ 100 \$ 96 \$ 100 \$ 99 \$ 100 \$ 100	2		14 11 13 12 2	
						Pick	lers								
1910 1911 1912 1913 1914 1915 1919 1920 1922 1924	4 5 5 8 9 9 7 7 7 11 12	50 58 39 71 121 126 67 65 106 150	70. 8 71. 2 71. 7 68. 1 69. 6 69. 8 68. 3 51. 5 65. 9 63. 6	\$0, 181 .177 .186 .216 .211 .209 .600 .792 .508 .555	\$12. 75 12. 54 13. 23 14. 49 14. 55 14. 44 40. 98 41. 13 33. 51 35. 48	104 105 105 100 102 102 100 76 97 93	84 82 86 100 98 97 278 367 235 257	88 87 91 100 100 100 283 284 231 245	(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B		(*) (2) (2) (2) 2 11 2 7 2 6 (3) 2 77 2 8 2	6 8 13	10 9 13 7 4 3 24 5 7 31	16 15 8 8 6 17 42 21	90 76 71 73 81 84 70 2 36
	,					Feed	lers								
1920 1922 1924	5 8 8	41 119 101	56. 8 61. 4 53. 1	\$0. 704 . 500 . 578	\$39. 39 30. 66 30. 72				(³) (³) 29	(3) (3) 222	3 41 3 32 9	7 9	20 10 2	39 30 3	21 21
	1 55	- 100				Labo	rers	41 (A) (A)		7.2		II.			
1910	9 9 9 13 15 15 8 9 11 13 13	347 361 354 351 378 394 656 270 866 808 757	63. 1 63. 6 63. 5 64. 9 65. 9 65. 0 61. 8 64. 5 59. 5 65. 2 64. 8	\$0. 164 .166 .169 .190 .188 .188 .331 .462 .536 .356 .420	\$10. 35 10. 54 10. 72 12. 28 12. 37 12. 21 20. 46 29. 80 32. 01 23. 06 27. 15	97 98 98 100 102 100 95 99 92 100 100	86 87 89 100 99 90 174 243 282 187 221	84 86 87 100 101 99 167 243 261 188 221	(\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$)	(9) (3) (3) (3) (2) (2) (2) (2) (2) (2)	(f) (f) (f) (f) (f) (f) (f) (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g	4 5 4 17 10 10 29 29 20	64 53 54 37 26 32 73 51 20 31 34	13 25 26 13 32 30 26 13 11 8	20 11 16 33 33 22 22 22 23 33 33 33 33 33 33 33

² In earlier reports tabulated only as "48 and under."

Average Daily Wage Rates of Railroad Employes on Class I Carriers, July, 1923

THE following table is taken from Wage Series Report No. 4 (February, 1924), of the United States Railroad Labor Board. It shows for Class I roads the number of employees in July, 1923; the rates as of December, 1917 (in part), and January, 1920;

and the rates, under awards of the United States Railroad Labor

Board, as of May, 1920; July, 1921; July, 1922; and July, 1923.

In many instances, especially since July, 1922, carriers and their employees have mutually settled their wage grievances, and hence such settlements have not come under the Board's awards. Further, some roads have paid wages above the minimum set by the Board's awards. The last column of the table shows the average rates of all Class I roads including both Board award rates and mutual agreement rates.

AVERAGE DAILY WAGE RATES OF RAILROAD EMPLOYEES ON CLASS I CARRIERS

		671.11	Αv	erage d	laily ra	ites	ant i	5 11
	Num- ber of em-		U.S. Rail-	U. 8	Rail Bo	road L ard	abor	Actual aver- age daily
Class of employees	ployees, July, 1923	De- cem- ber, 1917	Ad- minis- tra- tion, Janu- ary, 1920	May	July, 1921	July, 1922	July, 1923	rates in ef- fect July, 1923
Group I.—Supervisory forces								
Yardmasters Yardmasters' assistants Train dispatchers Train directors	3, 589 2, 395 3, 916 116		\$8. 14 7. 05 8. 35 6. 15	\$9. 34 8. 25 9. 39 6. 95	\$9. 11 8. 07 8. 90 6. 55	\$9. 11 8. 07 8. 90 6. 55	\$8, 95 8, 00 9, 08 6, 56	\$8, 95 8, 00 9, 08 6, 56
Group II.— Clerical and station forces				100		1-01		
Section 1: Storekeepers, assistant storekeepers, chief clerks, foremen, subforemen, and other clerical supervisory forces.	25, 588		6. 10	7. 14	6. 66	6. 42	6, 42	6, 88
Section 2 (a): Clerks with an experience of 2 or more years			4.11	5. 15	4, 67	4. 43	4, 43	4. 75
Section 2 (b): Clerks with an experience of 1 year and less than 2 years			3. 73	4.77	3. 73	3. 41	3, 41	3.66
and less than 2 years Section 3 (a): Clerks with an experience of less than 1 year Section 3 (b): Clerks without previous experi-			3. 40	3. 92	3, 40	3. 08	3, 08	3. 30
ence: First 6 months Second 6 months					2. 65 3. 04	2, 35 2, 74	2, 35 2, 74	
Total (sections 2 and 3)	200, 284		4. 08	5. 12	4. 61	4. 37	4. 37	4. 69
Section 4: Baggage agents and assistants	865		4. 17	5. 21	4. 41	4. 17	4.17	4. 33
Total (section 4)	9, 823		3. 27	4. 31	3, 51	3. 27	3. 27	3. 49
Section 5: Mechanical device operators	7, 658	~~~~	4. 36	5, 16	4. 36	4. 04	4. 04	4. 18
Office assistants Elevator operators and other office attend-	3, 851		2.97	3. 77	2.97	2. 65	2, 65	2.76
ants	1, 182 3, 601 7, 669		3. 11 3. 43 3. 01	3. 91 4. 23 3. 81	3. 11 3. 43 3. 01	2. 79 3. 11 2. 69	2. 79 3. 11 2. 69	2. 96 3. 17 2. 87
Total (section 5)	23, 961		3. 44	4. 24	3. 44	3.12	3. 12	3. 29
Section 6: Messengers and office boys	6, 942		2, 41	2. 81	2, 41	2.09	2. 09	2, 17
platform)	41, 967		3. 19	4. 15	3. 67	3, 35	3. 51	3. 52
Section 8 (a): Sealers, scalers, and perishable- freight inspectors	1, 312 15, 134		3.38	4. 42 4. 63	3. 94 4. 15	3. 62 3. 83	3. 78 3. 99	3. 76 4. 02
Total (section 8)	16, 446		3, 50	4. 61	4. 13	3. 81	3.97	4.00
Section 9: Laborers (coal and ore docks and grain elevators)	2, 752		4. 04	4. 72	4. 04	3.72	3, 88	4. 13
Common laborers (station, warehouse, plat- form, and grain elevators)	4, 240		3.32	4.00	3.32	3.00	3. 16	3. 2
Total (section 9)	6, 992		3. 52	4. 20	3. 52	3. 20	3. 36	3. 58
Section 10: Telephone switchboard operators	1, 545		3.12	3.92	3, 12	3. 33	3. 33	3. 39
Total, Group II	334, 413							4.4

[1273]

GE EARN. N SHEET

ose full-time

Over 60 72 and un-der over 72

2 1

rriers,

No. 4 oard. July, 1920;

AVERAGE DAILY WAGE RATES OF RAILROAD EMPLOYEES ON CLASS I

e July, 1022, oarriers and their	1. Y. F.	LB1DD	Ave	rage d	aily ra	tes		
The manufacture of the second	Num- ber of em-	COD	U.S. Rail-	U. 8		road La	abor	Actua aver- age
Class of employees	ployees, July, 1923	De- cem- ber, 1917	Ad- minis- tra- tion, Janu- ary, 1920	May 1, 1920	July, 1921	July, 1922	July, 1923	daily rates in ef- fect July, 1923
Group III.—Maintenance-of-way and unskilled laborers								
Section 1: Bridge and building gang foremen	5, 752		\$5, 95	\$7.15	\$6. 35	\$5, 95	\$5, 95	\$6.3
Section 2: Maintenance-of-way inspectors Portable steam equipment operators Gang foremen (extra gang and work-train	667 2,346		6. 40 5. 21	7. 60 6. 41	6. 80 5. 61	6. 40 5. 21	6. 40 5. 21	6.5
laborers) Gang foremen (bridge and building, signal,	5,003		4. 36	5. 56 6. 80	4. 76 6. 00	4. 36 5. 60	4. 36	4.8
and telegraph laborers)	1		4. 96	6. 16	5. 36	4. 96	5. 60 4. 96	5.2
Section 3: Gang and section foremen	40, 312		4. 13	5.33	4. 53	4. 29	4. 45	4.6
Section 4: Bridge and building carpenters Bridge and building ironworkers Bridge and building painters Masons, bricklayers, plasterers, and plumb-			4. 45 5. 33 4. 41	5. 65 6. 53 5. 61	4. 85 5. 73 4. 81	4. 53 5. 41 4. 49	4. 53 5. 41 4. 49	4.7 5.8 4.7
ers	2, 200		5. 50	6. 70	5, 90	5. 58	5. 58	5.6
Total (section 4) Section 5: Skilled trades helpers Regular apprentices	12, 579		4. 55 3. 81 3. 39	5. 75 4. 49 4. 07	3. 89 3. 47	4. 63 3. 81 3. 39	4. 63 3. 81 3. 39	3.1
Total (section 5)	12,775		3. 80	4. 48	3. 88	3.80	3.80	3.
Section 6: Laborers (extra gang and work train). Track and roadway section laborers. Maintenance-of-way laborers (other than track and roadway) and gardeners and farmers.	74, 557 240, 515 8, 981		3. 04 2. 98 3. 13	3. 72 3. 66 3. 81	3.04 2.98 3.13	2. 64 2. 58 2. 73	2. 80 2. 74 2. 89	2.1
Common laborers (shops, enginehouses, etc.)	67, 717		3.32	4.00	3.32	2.92	3.08	3.
Total (section 6) Section 7: Portable steam equipment operator	391, 770		3. 04	3.72	3.04	2. 64	2.80	2.
helpers Pumping equipment operators Bridge operator and helpers Crossing and bridge flagmen and gatemen	1,009 6,186 1,541 23,243		3. 83 2. 80 3. 59 2. 54	4. 51 3. 48 4. 27 3. 22	3. 83 2. 80 3. 59 2. 54	3. 43 2. 40 3. 19 2. 14	3. 59 2. 56 3. 35 2. 30	3. 2. 3. 2.
Total (section 7)	31, 979		2. 67	3. 35	2, 67	2. 27	2. 43	2.
Section 8: Laborers (shops, engine houses, power plants, and stores) Section 9: Gang foremen laborers (shops, engine	50, 181	goDa a	3. 27	4. 07	3. 27	2. 87	3.03	3.
houses, power plants, and stores)	4, 265		4. 71	5. 51	4. 71	4.31	4. 47	4.
Total, Group III	579, 531					-41-1-		3.
Group IV.—Shop employees Gang and other foremen: Hourly Monthly Machinists Boilermakers Blacksmiths Sheet-metal workers Electrical workers Carmen Molders	12, 833 9, 749 142, 526 1, 337	\$4. 05 4. 97 4. 80 4. 71 4. 95 4. 40 4. 15 3. 58 4. 88	5. 97 8. 73 5. 78 5. 85 5. 88 5. 77 5. 71 5. 44 5. 76	7. 01 9. 77 6. 82 6. 89 6. 92 6. 81 6. 75 6. 48 6. 80	6. 37 9. 13 6. 18 6. 25 6. 28 6. 17 6. 11 5. 84 6. 16	6. 37 9. 13 5. 62 5. 69 5. 72 5. 61 5. 55 5. 15 5. 60	6. 37 9. 13 5. 62 5. 69 5. 72 5. 61 5. 55 5. 15 5. 60	7. 5. 5. 6. 5. 5. 6. 5. 6.
Total (mechanics and foremen)	281, 214	0.00	9 00	* 00	4.00	2.00	9 00	5.
Helpers, all crafts Helper apprentices Regular apprentices Car cleaners	138, 766 7, 457 14, 502 13, 476	2.85 3.11 1.84	3. 96 4. 06 2. 76 3. 60	5, 00 5, 10 3, 80 4, 00	4, 36 4, 46 3, 16 3, 18	3.80 3.90 2.60 2.78	3.80 3.90 2.60 2.78	4. 4. 2. 3.
Total, Group IV	455, 415				19	different		5.
THE REAL PROPERTY OF THE PARTY	[1274]		-			1(2)10/7	1	

LASS I

hor Actual average daily rates in effect July, 1923

5. 95 \$6.36

6.02

4.64

5, 62

4. 83 3. 87 3. 27

2.90 3.15

2.55

7.19

5. 94 5. 96 6. 03 5. 95 5. 74 5. 41

6.41 5. 66 4. 03 4. 18 2. 82 3. 14 5, 03

3. 40 5. 21 . 36 4.81

. 60

. 96 5, 21

. 45

53 41 49

80 3.86 2.95 2.83

89 08

30 2.91

3 3. 15 4.63 3.24

AVERAGE DAILY WAGE RATES OF RAILROAD EMPLOYEES ON CLASS I

	240 00	ATAMA CAC	4					
Interest to the second of the			Av	erage d	laily ra	ites		
Transfer to the late of	Num- ber of em-		U.S. Rail- road	U. 8	S. Rail Bo	road L ard	abor	Actual aver- age daily
Class of employees	ployees, July, 1923	De- cem- ber, 1917	Ad- minis- tra- tion, Janu- ary, 1920	May 1, 1920	July, 1921	July, 1922	July, 1923	rates in ef- fect July, 1923
Group V.— Telegraphers, telephoners, etc.		-		11 11	1		Tel.	-11-11
fection 1: Station agents (telegraphers and tele- phoners). Chief telegraphers and telephoners or wire	19, 768		\$4. 51		\$4.83		\$4.83	\$4.81
chiefs	818 13, 914 27, 705.		6. 11 4. 44 4. 61	6. 91 5. 24 5. 41	6. 43 4. 76 4. 93	6. 43 4. 76 4. 93	6. 43 4, 76 4. 93	6, 50 4, 71 4, 90
Total (section 1)	62, 205		4. 57	5. 37	4. 89	4. 89	4.89	4. 85
Section 2: Station agents (nonsupervisory—smaller stations—nontelegraphers)	4, 297		3, 60	4. 00	3. 60	3. 60	3, 60	3, 67
Total, Group V	66, 502							4. 78
Group VI.—Engine-service employees	7 .slm	mdá	date	9				
Passenger engineers and motormen Passenger firemen and helpers Freight engineers and motormen, through Freight engineers and motormen, local Freight firemen and helpers, through Freight firemen and helpers, local Yard engineers and motormen Yard firemen and helpers Hosters	13, 096 24, 299 9, 445 26, 559 9, 661 21, 750 22, 188 10, 648	\$4.39 2.68 5.18 5.38 3.36 4.27 2.66 2.65	5. 68 4. 18 6. 65 7. 04 4. 85 4. 98 5. 71 4. 23 4. 35	6. 48 4. 98 7. 69 8. 08 5. 89 6. 02 7. 15 5. 67 5. 79	6. 00 4. 50 7. 05 7. 44 5. 25 5. 38 6. 51 5. 03 5. 15	6.00 4.50 7.05 7.44 5.25 5.38 6.51 5.03 5.15	6.00 4.50 7.05 7.44 5.25 5.38 6.51 5.03 5.15	7. 22 7. 43 5. 39 5. 45 6. 67 5. 11 5. 22
Hostler helpers	2, 369	2. 50	3. 60	5.04	4. 40	4.40	4.40	4. 39
Passenger conductors Passenger baggagemen Passenger flagmen and brakemen Freight conductors, through Freight brakemen and flagmen, through Freight brakemen and flagmen, local Freight brakemen and flagmen, star brakemen Yard foremen Yard helpers Switch tenders	6, 078 15, 114 17, 354 9, 376 40, 347 24, 698 21, 712	4. 45 2. 75 2. 59 4. 08 4. 47 2. 75 3. 00 3. 77 3. 42 2. 62	6. 00 4. 16 4. 00 5. 40 5. 92 4. 08 4. 48 5. 34 5. 01 4. 00	7. 00 5. 16 5. 00 6. 44 6. 96 5. 12 5. 52 6. 96 6. 48 5. 04	6. 40 4. 56 4. 40 5. 80 6. 32 4. 48 4. 88 6. 32 5. 84 4. 40	6. 40 4. 56 4. 40 5. 80 6. 32 4. 48 4. 88 6. 32 5. 84 4. 40	6. 40 4. 56 4. 40 5. 80 6. 32 4. 48 4. 88 6. 32 5. 84 4. 40	5. 91 6. 37 4. 59 4. 95 6. 34 5. 87 4. 41
Stationary engineers, firemen, etc.				bule	110		to have	1
Section 1: Stationary engineers (steam) Section 2: Stationary firemen and oilers (steam and electrical plants) Section 3: Coal passers and water tenders (steam station boiler room)	2, 647 5, 430 554		4.74 3.95 3.46	5. 78 4. 99 4. 26	5. 14 4. 35 3. 78	4, 98 4, 19 3, 62	4. 98 4. 19 3. 62	5. 18 4. 31 3. 70
Total (stationary engineers, firemen, etc.)	8, 631		04 20	11.00		0.00	0.00	4. 54
Signal department employees	0,001							
Sections 1 and 2: Gang foremen (signal and tele- graph skilled trades)	1, 211		6. 62	7.66	7.02	6. 62	6.62	7. 14
Section 3: Signalmen and signal maintainers Assistant signalmen and assistant signal maintainers	8, 254 2, 502		5.73 4.66	6.77 5.70	6. 13 5. 06	5. 73 4. 66	5. 76 4. 66	5. 91 4. 63
Total (section 3)	10, 756		5. 52	6. 56	5. 92	5. 52	5. 54	5. 62
Section 4: Signalmen and signal maintainers' helpers	3, 715		3. 98	4.78	4. 30	3. 82	3.82	3. 80
Total (signal department employees)	15, 682	*****	3. 33	2.10	2.30			5. 35
- vien to guar deparement employees/	20,002						-	0.00

AVERAGE DAILY WAGE RATES OF RAILROAD EMPLOYEES ON CLASS I

		1	Ave	erage d	laily n	ates		1
Average dully calm Artenage d	Num- ber		U S. Rail- road	U. S. Railroad Labor Board				A ctual aver- age
Class of employees	of employees, July, 1923	De- cem- ber, 1917	Ad- minis- tra- tion, Janu- ary, 1920	May 1, 1920	July, 1921	July, 1922	July, 1923	dai rat in e fee Jul 192
Marine department employees								
Barge, lighter, and gasoline launch officers and workers Deck officers (ferryboats and towing vessels) Engine-room officers (ferryboats and towing vessels) Deck and engine-room workers (ferry and towing vessels) Deck and engine-room officers and workers (steamers) Floating equipment shore workers and attend-	1, 705 790 760 3, 844 1, 866			101	\$4. 21 6. 43 6. 55 4. 25 2. 71	\$4. 10 6. 44 6. 51 4. 35 2. 12	\$4, 18 6, 54 6, 60 4, 24 2, 23	\$4 6 6 4 2
ants	951				3. 77	3. 51	3. 54	3
Total (marine department employees)	9, 916				4. 22	4.06	4. 13	1

Earnings of Male and Female Workers in Massachusetts Manufacturing Establishments, March, 1924

A VERAGE weekly earnings of male and female employees in various industries in Massachusetts in March, 1924, are given in the following statement received from the Department of Labor and Industries of that State:

EMPLOYMENT AND EARNINGS OF MALE AND FEMALE WORKERS IN REPRESENTATIVE MANUFACTURING ESTABLISHMENTS IN MASSACHUSETTS IN MARCH, 1924

Industry	Estab- lishments	ployees o	r of em- n payroll	Average weekly earnings	
	reporting	Males	Females	Males	Females
Automobiles, including bodies and parts	6	1,511	69	\$29, 40	\$18.0
Boot and shoe cut stock and findings		933		23, 29	14.0
Boots and shoes	00	3, 174		29, 27	18.7
Boxes, paper		545	459	22, 13	15.7
Bread and other bakery products		1,578		26, 03	12.2
Clothing, men's	15	368	742	32, 33	15.3
Clothing, women's	16	72	749	33, 21	15.1
Confectionery		870	1,621	22, 25	15.0
Cotton goods		2, 302	2, 185	19, 91	14.8
Cutlery and tools	9	988	120	26, 76	16.
Dyeing and finishing textiles	- 5	2,876	976	24, 95	13.
Electrical machinery, apparatus, and supplies	3	6, 357	823	29, 24	19.0
Foundry and machine shop products	19	2, 652	131	28, 19	17.
Furniture	14	1, 154	164	29, 39	18.0
losiery and knit goods		348	1, 112	28, 32	17.0
ewelry	12	414	232	28, 18	15.
eather, tanned, curried, and finished	12	2, 592	175	27, 49	15.
Musical instruments	6	521	58	32, 42	14.0
Paper and wood pulp	15	2, 944	1,019	29, 00	15.
Printing and publishing, book and job	25	646	213	33, 51	20.
Printing and publishing, newspaper	13	476	72	35, 55	27.
Rubber goods	- 6	2, 200	451	26, 46	13.
silk goods		959	1, 247	24, 05	16.
Stationery goods		206	389	27, 85	15.
Pextile machinery and parts		2, 254	140	25, 47	17.
obacco	of leading	501	72	28, 42	16.
Woolen and worsted goods	13	2, 351	1, 832	29, 80	18.
All other industries.	62	16, 340	3, 763	29. 64	15.
Total	386	58, 192	22, 197	28. 06	16.

Wages of Farm Laborers in Canada

THE following table, showing average monthly and annual wages of Canadian farm labor, is reproduced from the February issue of the Monthly Bulletin of Agricultural Statistics, published by the Dominion Bureau of Statistics:

AVERAGE WAGES OF FARM LABORERS IN CANADA, AS ESTIMATED BY CROP CORRESPONDENTS, 1921 TO 1923

no monthly mone our		M	ales		Females				
Province	Per n	onth, su season	ımmer	Per year, wages and board	Per month, summer season			Per year.	
	Wages	Board	Wages and board		Wages	Board	Wages and board	wages and board	
Canada:									
1921	\$45	\$22	867	\$669	\$24	910	810		
1922	38	21	59	594	22	\$18 17	\$42	\$4.15	
1923	40	21	61	611	22	17	39	418	
Prince Edward Island:	-		01	011	22	14	39	422	
1921	29	16	45	460	10	10			
1922	26	14	40	415	15	12	27	257	
1923	28	15	43	472	15	12	27	295	
Nova Scotia:		10	30	912	16	12	28	309	
1921	36	20	56	592	970	14	24		
1922	31	19	50	536	17	14	31	352	
1923	36	20	56	555		13	29	327	
New Brunswick:	00	20	30	555	18	14	32	340	
1921	35	19	54	575	17	7.4	0.0		
1922	34	19	53	520	17	14	31	332	
1923	41	18	59	615	17	15	32	317	
Quebec:		20	00	010	19	14	32	364	
1921	39	19	58	559	10 1				
1922	35	18	53	510	18	14	32	335	
1923	40	19	59	559	17.	12	29	306	
Ontario:		10	00	- 009	. 19	13	32	334	
1921	40	20	60	609	22				
1922	37	20	57			16	38	418	
1923	38	21	59	569	21	16	37	397	
Manitoba:	00	41	00	597	22	17	39	: 427	
1921	53	26	79	798	00				
1922	40	23	63		28	22	50	552	
1923	40	22	62	640	24	19	43	471	
Saskatchewan:	30		0.4	631	23	19	42	459	
1921	54	26	80	Tor	00				
1922	40	24	64	795	29	29	51	556	
1923.	42	23	65	673 652	25	21	46	502	
Alberta:		20	00	032	24	20	44	484	
1921	52	26	78	740	01	00			
1922	41	23	64	746	31	23	54	566	
1923	46	24	70	628	24	21	45	482	
British Columbia:	30	24	10	704	27	21	48	506	
1921	52	27	190	0 = =			110		
1922	47		79	855	31	23	54	613	
1923		28	75	849	30	24	54	636	
	50	26	76	775	30	23	53	640	

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13. 99 19. 03 17. 40 18. 01 17. 08 15. 55 15. 46

14. 09 15. 39 20. 47 27. 46 13. 83 16. 10 15. 17 17. 64

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ared in pre-war those have decreased the most. Captains reserve present only one-last of their pre-war salaries, while the real war

Wages in the German Merchant Marine, February, 1924

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THE April 10, 1924, issue of Wirtschaft und Statistik, the bulletin of the German Statistical Office, shows (page 217) the wage rates paid under collective agreements, to officers and crews of the German merchant marine. These rates, which became effective on November 1, 1923, are fixed in rentenmarks,1 and apply to oceangoing vessels of over 100 tons gross with the exception of fishing and salvage vessels, tugboats, and barges. While on voyages in the North Sea and Baltic Sea, officers receive only two-thirds of these rates.

In the following table are shown the average monthly money and "real" wage rates effective in the German merchant marine in Feb. ruary, 1924, and the real rates are compared with the rates effective in 1913:

AVERAGE MONTHLY MONEY AND REAL WAGE RATES IN GERMAN MERCHANT MARINE, 1913 AND FEBRUARY, 1924

ange rate varies. Rentenmark circulates only in Germany, at a value equal to the gold mark, or 23.8 cents] [Mark at par=23.8 cents. Exchange rate varies.

Occupation	Wage rate.	Money wage	Real wage rate, February, 1924 ⁵		
Occupation	1913 1	ary, 1924 ³	Amount	Per cent of 1913 rate	
1924 19 cm/Hu 5 35 m 25 94 m 28 1	Marks	Rentenmarks	Marks		
Captains	325. 00	180.00	173. 00	53.1	
Fourth officers	126. 00 464. 00	4 94, 00 240, 00	90. 50 231. 00	71.1	
Fourth engineers	142.00	4 120, 00	115. 50	49.1 81.1	
Chief boatswains, chief carpenters	108.00	\$ 67. 50	65, 00	60,1	
CALLED TO COLUMN TO CALLED COLUMN TO	FO. 00	5 61, 50	59. 00	77.1	
Able seamen	76.00	01, 00	00.00		
Able seamen Ordinary seamen	39, 00	5 28. 50	27. 50		
Able seamen Ordinary seamen Apprentice seamen	39, 00 18, 00	⁵ 28, 50 ⁵ 11, 50	27. 50 11. 00	70.1 61.	
Able seamen Ordinary seamen	39, 00	5 28. 50	27. 50	70.	

¹ These rates include all known allowances, but do not include board which is also furnished.

A comparison of the wage rates effective in the German merchant marine in February, 1924, with those effective in 1913 brings out the same phenomena that are characteristic of the general development of wages in Germany: A leveling of wages and decreased purchasing power. In February, 1924, a captain's monthly salary was only 3.2 times as much as the monthly wage of a coaler, as compared with 4.6 times in 1913. For a chief engineer the corresponding figures are 4.2 as against 6.5, for a boatswain or carpenter 1.2 as against 1.5. Only in the case of the ordinary and apprentice seaman has this difference increased; these receive now only 50 and 20 per cent, respectively, of the wage of a coaler, as against 55 and 25 per cent in The real wages of those occupations that were best remunerated in pre-war times have decreased the most. . Captains receive at present only one-half of their pre-war salaries, while the real wages of the officers of lower rank and of the crews amount now to between

² Board is furnished free.

S Computed on the basis of the national cost-of-living index.
Inclusive of 25 per cent extra pay for overtime.
Inclusive of 5.5 per cent extra pay for overtime.

¹ The rentenmark circulates only in Germany, at a value equa to the gold mark, or 23.8 cents.

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60 and 80 per cent of their pre-war wages. In judging the purchasing power of these wages it should be taken into consideration that officers and crew receive their board free. Since their board has the same real value now as before the war, the rations having remained the same, the percentage which their real wages form of the pre-war wages would be somewhat higher if the value of the board furnished them were taken into account. The salaries of the ship's officers shown in the preceding table are minimum salaries. All large shipping companies pay bonuses based on the length of service, in addition to these rates, and special allowances.

Wages in Mexican Industries, 1922

by Hector Lazo, special agent of the Department of Commerce, which appears in the May, 1924, issue of the Pan American Union Bulletin. According to the author, some of the industrial enterprises in Mexico "compete very seriously with imported merchandise, while others are producing to the point where they are not only supplying merchandise for home consumption but are exporting comparatively large quantities of their products to neighboring countries."

The following table shows the number of textile plants in Mexico, classification thereof, capital investment, number of employees, and

the average daily wage paid for labor:

DAILY WAGES OF MEN, WOMEN, AND CHILDREN EMPLOYED IN MEXICAN TEXTILE INDUSTRIES, OCTOBER 31, 1923

[Figures are in United States currency. Conversions have been made at the rate of 2 pesos=\$1]

Nature of plant		Capital invested	Men		Wo	men	Children	
	Plants in opera- tion		Num- ber em- ployed	Average wages	Num- ber em- ployed	Average wages	Num- ber em- ployed	A ver- age wages
Spinning yarns	7 2	\$508, 397 128, 808	471 240	\$0. 87 . 89	193 85	\$0. 67 . 63	61	\$0. 40 . 52
Knitted goods and yarns Knitted and woven goods Yarns and knitted and woven	75 6	19, 514, 073 1, 273, 248	15, 412 671	1. 01 1. 29	2, 626 1, 783	. 67	1,709	. 40
goods	3	940, 741	1, 066	. 93	434	. 67	- 64	. 38
goods Printed goods only Dyed goods only	12 2	13, 241, 766 425, 976 20, 587	10, 292 317 15	1. 19 1. 38 . 60	1, 574	. 91 . 75	1, 115 54	. 43
Total	108	36, 053, 596	28, 484	1. 02	6, 702	. 75	3, 046	. 48

The table below shows the average wages paid in the various industries in Mexico during 1922, together with maximum and minimum wages for men and women:

DAILY WAGES PAID IN MEXICO DURING 1922, BY INDUSTRIES

[Wages are given in United States currency. Conversions have been made at the rate of 2 pesos=\$1]

gutta og uti aleas verentine mi der ut seorgasis, for alegent ac	Maxim	um wage	Minimu	ım wage	Average wage	
Industry	Men	Women	Men	Women	Men	Wome
Coffee mills	\$1, 37	\$0, 50	\$0.75	\$0.37	\$1.06	\$0.
Pastry shops	2, 94	. 68	1.00	. 50	1. 97	40.
		.97	. 74	. 52	1. 44	
Candy factories	1. 43	.78	. 69	. 56	1. 06	
Tobacco factories	2, 66	1.11	1. 15	. 84	1. 91	
Print shops	2.98	1. 17	. 97	. 53	1, 97	
1	0.07	1.44	1, 33	. 85	2, 00	1
Pottery and chinaware	2. 18	1. 13	1. 31	.80	1.74	1
eweiry snops Pottery and chinaware	1.77	1.40	1. 07	.00	1. 42	
Plumbing establishments	1.72	1. 37	. 75	. 52	1. 22	
farble works	2.30	1.01	1. 12	. 00	1. 71	
umber shops			1, 28		1. 59	
			. 73		1. 12	*****
ooperages oundries and smelters	2, 50		.72		1. 60	
lacksmith shops	1.63		.92		1. 27	
abinet shops	2. 56	2.08	1. 16	. 27	1. 86	******
urniture shops		. 87	. 90	. 55	1. 79	1
fotch foctories	1. 68	.65	.75	. 35	1, 79	
fatch factories	2, 50	. 00	1.00	. 00	1. 75	
	2, 50	. 75	1. 50		1. 75	
aint factories			1. 22	. 54	1. 17	
pap factories	1. 11	.87	. 68	. 48	1. 17	
		. 56				
otton textile millsnderwear factories	2. 23	1. 04	. 75	. 54	1. 49	
	2. 56	1. 55	. 90	. 56	1. 73	
at factories	1.75	1.15	. 86	. 53	1. 30	
ailor shops	1. 68	. 87	. 97	. 50	1.32	
noe factories	2.60	1.10	1. 19	. 61	1.90	
erfume factories	1.61	1. 23	. 75	. 39	1. 18	
ower stations (electric)	3. 55		1.80		2.67	
eather goods	2, 00	1. 25	. 87	1.00	1. 43	
aper factories	2 10		. 68		1.39	
ardboard-box factories	2 14	. 56	. 77	. 27	1.45	

of the other sold lower rank and of the crews amount care to be

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Women

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1. 17 . 71 . 50 . 75 . 70 . 52 . 79 1. 05 . 80 . 68 . 85

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CHILD LABOR

Child Labor in the United States, 1910 and 1920 1

THE Census Bureau has recently published a study of the data relating to children who were gainfully employed at the time of the census taking, from which it appears that in the decade from 1910 to 1920 there was a decrease in both the number and proportion of employed children, a decrease the more striking because for some decades previously the proportion had remained comparatively steady, while the absolute number had increased.

In continental United States the total number of children 10 to 15 years of age reported as engaged in gainful occupations in 1920 was 1,060,858, representing 8.5 per cent of all children in that age period, as compared with 1,990,225, or 18.4 per cent, in 1910; 1,750,178, or 18.2 per cent, in 1900; 1,503,771, or 18.1 per cent, in 1890; and 1,118,356, or 16.8 per cent, in 1880.

This decrease was general throughout the Union, and was more marked for boys than for girls. Thus for boys the decrease was from 1,353,139, or 24.8 per cent, in 1910 to 714,248, or 11.3 per cent, in 1920, while for girls the corresponding figures were 637,086 (11.9 per cent) in 1910 and 346,610 (5.6 per cent) in 1920. Only six States showed an increase in the number of children gainfully employed, and the District of Columbia was the solitary division which showed an increase in the percentage.

A large part of the decrease occurred among children engaged in agricultural pursuits, who in 1910 numbered 1,432,428, and in 1920 only 647,309, a decrease of 54.8 per cent. This fact suggests that a part, at least, of the apparent falling off is fallacious, due to a change in the time of collecting the census figures. In 1910 they were collected as of April 15; in 1920, as of January 1. April is a time of great agricultural activity when, if ever, children in rural districts are apt to be at work; January is a dull season for farming.

Taking the census in January undoubtedly resulted in a smaller number of children being returned by the census enumerators as engaged in agricultural pursuits than would have been returned had the census been taken as of April 15, as it was in 1910. It is believed that when the enumeration was made in 1920 (as of January 1) many children usually employed as farm laborers were not then at work and were not returned by the census enumerators as gainfully occupied. The enumerators' schedules show that a considerable proportion of the children living on the home farm were returned as neither attending school nor as being gainfully employed.

The figures as to nonagricultural employment, however, are presumably not affected by this change, and they also show a decrease, though this is not so marked as in agricultural occupations; in 1910, the proportion of the children aged 10 to 15 engaged in agricultural pursuits was 13.2 per cent, and in 1920 it was 5.2 per cent, the corresponding proportions for those in nonagricultural pursuits being 5.2 per cent and 3.2 per cent.

¹ U. S. Bureau of the Census. Children in gainful occupations at the Fourteenth Census of the United States. Washington, 1924. 276 pp. 95

Within the group of nonagricultural pursuits the movement was by no means uniform, 58 occupations showing a decrease and 24 an increase from 1910 to 1920 in the number of children employed.

Among the more important occupations, the decrease was quite marked in apprentices to dressmakers and milliners (67.9 per cent), coal-mine operatives (61.5 per cent), laborers and semiskilled operatives in the building and hand trades (56.1 per cent), launderers and laundresses (not in laundry) (62.7 per cent), and servants (57.6 per cent), while the increase was particularly large in clerks (except clerks in stores) (80.4 per cent), janitors and sextons (56.7 per cent), laborers and semiskilled operatives in electrical supply factories (55.8 per cent), laborers, garage, road, and street (90.6 per cent), and stenographers and typists (109.6 per cent).

An important feature both of the general decrease and of many of the decreases in specific occupations is that it is most apparent among the younger children. The employment of children under 14 is usually considered more open to serious objection than that of older children, and the campaign against it is apparently bearing fruit. The number of children aged 10 to 13 gainfully employed in nonagricultural pursuits fell from 95,841 in 1910 to 49,105 in 1920. while the proportion of this age group so employed fell from 1.3 per cent to 0.6 per cent. The decrease was general throughout the country, though it was most evident in the South Atlantic and East South Central States, where the employment of these younger workers had been greatest in the preceding decade. Their importance as an industrial factor naturally changed considerably with this decrease, though this varied widely according to occupation. In 1910 children aged 10 to 13 formed 17.2 per cent of the total 10 to 15 year old group engaged in nonagricultural pursuits; in 1920 the proportion had sunk to 11.9 per cent. Among cotton-mill operatives the decrease was from 29 per cent in 1910 to 2.8 per cent in 1920. and among coal-mine operatives from 11.6 per cent to 8.3 per cent, while among newsboys there was an actual increase, the proportion rising from 58.9 per cent to 62.3 per cent.

The reasons for the decrease in the employment of children in general, and especially of this younger group, are discussed at some length. To a large extent, it is attributable to the increase in the amount and stringency of child-labor legislation by the States, and, in certain pursuits, to the Federal child-labor laws which were eventually declared unconstitutional. But legislation in its turn is due to public opinion, and this opinion may make itself felt beyond the limits of legislation.

The advance during the decade 1910 to 1920 in the legislation restricting the employment of children and requiring their attendance at school is evidence that during this time there was also considerable advance in public opinion against the employment of young children and in favor of their attendance at school; and it is believed that the greater popular disapproval of child labor decreased somewhat the tendency to employ young children.

Employment of Children in Virginia

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that ainst hool; eased THE following table summarizes certain statistics on the employment of children in Virginia, published in the twenty-fifth and twenty-sixth annual reports of the Bureau of Labor and Industrial Statistics of that State:

NUMBER AND AGES OF CHILDREN GRANTED BADGES FOR STREET TRADES AND EMPLOYMENT CERTIFICATES FOR MERCANTILE AND MANUFACTURING ESTABLISHMENTS

Age	Number of children granted—									
	Badg	es for street tr	rades	Employment certificates for me cantile and manufacturing esta lishments						
	Year ending Sept. 30, 1922	Year ending Sept. 30, 1923	Total	Year ending Sept. 30, 1922	Year ending Sept. 30, 1923	Total				
12 years 13 years 14 years 15 years	489 491 556 310	481 495 725 377	970 986 1, 281 687	751 895	1, 435 1, 385	2, 186 2, 280				
Total	1, 846	2, 078	3, 924	1, 646	2, 820	4, 46				

[1283]

LABOR AGREEMENTS, AWARDS, AND DECISIONS

Decisions of Railroad Labor Board

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Wages of Division Linemen in Telegraph Department

A QUESTION involving the proper rate of pay of division linemen in the telegraph department was recently settled by the Railroad Labor Board (Decision No. 2312, March 26, 1924) in a dispute between the Federated Shop Crafts and the Chicago, Rock Island & Pacific Railway Co. The question was whether these employees should be classified as electricians, as defined by Rule 140, or as linemen, as defined by Rule 141 of the shopmen's agreement promulgated by the United States Railroad Administration.

The dispute was of long standing. The classification of electricians and linemen was made by supplement 4 to General Order No. 27, issued July 25, 1918. By Rules 43 and 45 of the shopmen's agreement electricians were given a rate of 4 cents per hour more than linemen, effective May 1, 1919. The employees contended that the division linemen were performing service covered by Rule 140, which defines electricians' work, and should be rated as electricians rather than as linemen.

On December 13, 1919, a joint submission of the case was made to the Director General of the Railroads setting forth the contentions of the respective parties to the dispute. This case was decided by Adjustment Board No. 2 of the United States Railroad Administration on December 7, 1920. The board, on finding that division linemen spent 10 per cent of their time on inside inspection and repair work, rated them as electricians and they were paid at the higher rate through February 29, 1920, the date when the Government relinquished control over the railroads.

The question then came before the Railroad Labor Board for decision as to the status of division linemen after February 29, 1920. The employees contended that inasmuch as the Railroad Administration had decided that division linemen should be classified as electricians, because they were doing electricians' work part of the time; as the transportation act, 1920, continued the rates established by the United States Railroad Administration till September 1, 1920; and as decision No. 2 of the Railroad Labor Board continued the national agreement until further hearings could be held, they were entitled to the electricians' rate until such time as this rate should be changed by agreement or decision of the Railroad Labor Board. The carriers contended that division linemen were not electricians, but were in a class by themselves and that the lower rate of pay was adequate for the services they performed.

The Railroad Labor Board rendered its opinion that under the circumstances—

It would be inconsistent for the Railroad Labor Board to rule other than that the rates established in decisions of the United States Railroad Administration for the period of Federal control, regardless of when said decisions were rendered, are "rates established by or under the authority of the United States

98 [1284

Railroad Administration" and to which rates the increases specified in Decision No. 2 should be added and subsequent authorized adjustments made accordingly.

It decided that the rate authorized in decision of Railway Board

Adjustment No. 2 was proper, and further—

Based on the evidence in this case, the employees classified as and performing the work of linemen as authorized in Rule 141 shall be compensated on the basis of Rule 45 with the authorized subsequent adjustments. Employees classified as linemen and required to perform work as authorized in Rules 140 and 141 are composite workmen and shall be paid the rate applicable to employees performing the work specified in Rule 140 [electricians' work].

If difference of opinion exists as to the actual work being performed by these

If difference of opinion exists as to the actual work being performed by these employees, proper joint investigation shall be made by the duly authorized representatives of the carrier and the employees, and rate of pay shall be estab-

lished in accordance with the preceding paragraph of this decision.

Reinstatement

A CASE involving the right of a railroad to discharge an employee in order to avoid a strike was recently decided by the Railroad Labor Board (Decision No. 2304, March 24, 1924). The action grew out of the July, 1922, strike of the shopmen, members of the Federated Shop Crafts. After the men on the Great Northern Railroad had been out for several months an understanding was reached, January 6, 1923, by which the strike was called off and the strikers were to be taken back "in such numbers as the exigencies of the service required." The memorandum of the agreement, which was undated and unsigned, also provided that it should be optional with former employees who applied for reemployment whether they should join the new association, the Associated Organizations of Shop Crafts' Employees, and that vacancies should be "filled in the order of seniority among themselves."

One of the former employees who returned to service was discharged three days later for refusal to join the new association because of "his individual right to select the organization, if any, to which he desired to belong" as permitted by the memorandum

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The essential parts of the opinion and decision of the Railroad Labor Board, in considering the case, follow:

Opinion.—Said memorandum was an agreement between the carrier and the strikers. Though not formally executed, it was the result of negotiations conducted between the carrier and these strikers and it was announced by the preconcerted and coordinated arrangement shown on its face. After its issuance, the carrier recognized its binding force by taking the proper steps to carry it out.

The employee whose grievance is involved herein entered the service of the carrier in compliance with the terms of said memorandum, and was subsequently discharged on account of the protest to the carrier of the representatives of the association arising from his refusal to join said association. The carrier yielded to the threats of the association to strike, discharged the employee, and thus violated its agreement which had left it optional with the employee as to joining the association. Said provision in the memorandum was not in conflict with the agreement between the carrier and the shop association and was otherwise lawful and unobjectionable.

wise lawful and unobjectionable.

Decision.—The Railroad Labor Board decides that System Federation No. 101 or its affiliated organizations has the right to represent individual employees having grievances under the provisions of existing agreements. The board sustains the complaint of [the] machinist, and orders that he be restored to the service of the carrier with seniority rights in accordance with said memorandum, and that he be paid for time lost since February 2, 1923, less any amount earned

in other employment subsequent to that date.

[1285]

Strikers not Employees

ON THE same day that the preceding decision was rendered, the Railroad Labor Board rendered another (Decision No. 2302) growing out of the same strike. In this case, a certain striking car repairer, after the strike was declared at an end, was notified to report for duty, but when he reported, the carrier declined to reemploy him because of his refusal to sign an application for membership in the new association, basing his refusal on the first section of the memorandum which reads as follows:

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It is optional for former employees who are applicants for employment whether they sign application of new association.

"The carrier insists that its declination was rendered proper and necessary by the conduct of the chairman of the striking organization who had issued certain circulars to the strikers immediately after the strike had been called off. These circulars, it is alleged, violated the assurance given in the memorandum that there was to be 'no propaganda or bitterness,' and endangered peaceful and harmonious conditions in the shops."

Extracts from the opinion of the Labor Board follow:

Opinion.—Assuming that the memorandum in question constituted an agreement, it was an agreement between the carrier and men not in its employ.

Over that portion of said memorandum which is alleged to be an agreement for the employment of the strikers, the Railroad Labor Board has no jurisdiction. The transportation act, 1920, gives the Board jurisdiction over railway employees only. The memorandum does not treat of the strikers as employees, but speaks of them as "former employees" and "applicants for employment." This was the view adopted by both parties and is obviously correct. As a matter of fact, the shop employees at that time were the men who had been retained or accepted employment during the strike, and the recognition of this fact is clear throughout the memorandum. It speaks of the vacancies existing, and states that very few vacancies did exist in certain of the crafts.

At the time the memorandum was made, Mr. B. was not an employee of the carrier and has not since become one. This case therefore does not involve a dispute between a carrier and an employee as contemplated by the statute.

The board therefore declined to take jurisdiction of the question whether the carrier had violated its agreement in refusing to employ the car repairer.

A vigorous dissenting opinion was filed, in which the following

statements were made:

The refusal of the employer to engage the services of an applicant for employment who can meet all requirements of the agreement immediately creates a dispute which may result in a substantial interruption to the operation of a carrier, as a situation of this kind directly concerns every employee of the class or craft party to the agreement and more particularly so where an employer seeks to impose as a condition of employment that all applicants shall be required to join an organization other than the one which negotiated the agreement and with which the applicant does not desire to affiliate.

To hold that the Railroad Labor Board has no jurisdiction over a dispute arising as a result of a carrier disregarding the provisions of an agreement presumably made in good faith is unsound and wholly out of keeping with the intent and pur-

pose of the labor provisions of the transportation act, 1920.

In the supporting decision the following statement is made:

It may not be amiss simply to repeat that the Railroad Labor Board has held in this case that it has no jurisdiction over those who are not railway employees but are merely applicants for employment. Having so held, it was unnecessary to pass upon any of the other questions incidentally involved.

[1286]

Union Membership

DISCHARGE of employees for joining a union was considered by the Railroad Labor Board in Decision No. 2305, March 26, 1924. Because of the shopmen's strike in July, 1922, the Nashville, Chattanooga & St. Louis Railway thereafter refused to employ any member of the Federated Shop Crafts and discharged a machinist for rejoining it after being hired "with the express and distinct understanding that he was not a member of the Federated Shop Crafts and would never so long as he was an employee of the [company] join any of those organizations."

The employees insisted that a requirement of nonmembership in any particular union as a condition of securing employment was a violation of the terms of the transportation act, 1920.

The opinion of the board expresses its views on the question:

The carrier contends that it had the right to refuse employment to men who had participated in the strike and had tried to throttle the operation of its essential public service, and that it had the right to impose on a striker as a preliminary condition to reemployment an obligation that he would not again become a member of the Federated Shop Crafts, the organization which precipitated and conducted the strike.

The question as to the right of the carrier either to employ or decline to employ Mr. O. is not the issue in this case. The real and serious question and one that has not heretofore been presented to the board is whether or not a carrier has the right to require a prospective employee to surrender in advance his future freedom of action as a citizen and employee in the exercise of his rights under the law.

of action as a citizen and employee in the exercise of his rights under the law.

The transportation act, 1920, in substance and effect, guarantees to every railway employee the right to participate in the selection of his representatives in the conferences, negotiations, and general procedure under the law.

in the conferences, negotiations, and general procedure under the law.

This provision would be nullified if the carrier when employing a man could require him to pledge his future action as to affiliation or nonaffiliation with labor organizations. Such a pledge would forever deprive an employee of the rights conferred upon him by an act of Congress, or rather, indeed, the rights which he already possessed and which Congress merely recognized and affirmed. To impose upon an employee such a condition is not only unlawful, but it is inherently unfair and unjust.

Employees must, under the law, be left free to choose the labor organization with which they will affiliate.

In view of the fact, however, that the employee voluntarily made the agreement in question and afterwards repudiated it, it would not be an act of good faith to permit the employee to reap the benefit of compensation for time lost.

Decision.—The Railroad Labor Board decides that the employee shall be reinstated with seniority rights unimpaired, but without pay for time lost.

Discharge

A DECISION of the Railroad Labor Board relative to summary discharge of employees was made in Decision No. 2286, March 20, 1924. The general chairman of the Brotherhood of Maintenance of Way Employees on the Pennsylvania Railroad was discharged for "circularizing the employees with attacks on the integrity of the officers of the carrier and also vilifying the employees with whom he came in contact who were not members of his organization." The carrier stated that the case "involves matters of discipline, which in the very nature of things must be left to the carrier alone to determine in order to secure efficient and economical management," and denied that his "affiliation with the United Brotherhood of Maintenance of Way Employees and Railway Shop Laborers had anything to do with its action in relieving him from the service."

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The decision of the board was to the effect that the discharge was not justified, and directed his reinstatement with seniority rights unimpaired and with pay for time lost.

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THE action of carriers in discontinuing the service of brakemen on passenger trains and filling such positions with negro porters has been held by the Railroad Labor Board to be a violation of the schedule agreement, effective March 1, 1920, and of supplement 12 to General Order No. 27 of the United States Railroad Administration.

Five decisions, Nos. 2329 to 2333, each dated April 9, 1924, were rendered in the following words:

The Railroad Labor Board decides that brakemen who have been displaced or whose services have been discontinued, all or any part of whose duties were afterwards performed by porters, shall be reinstated and compensated for any wage loss sustained thereby.

Deduction for Wage Overpayments

THE question whether a company was authorized to deduct for overpayments was decided in Decision No. 2310 of the Railroad Labor Board, announced March 26, 1924.

The wages of a drawbridge operator on the Delaware, Lackawanna & Western Railroad were increased successively September 1, 1918, by supplement 8 to General Order 27, which also established the eight-hour day with pro rata payment for the ninth and tenth hour and time and a half thereafter, by the agreement effective December 16, 1919, and by Decision No. 2 of the Labor Board, effective May 1, 1920.

In January, 1921, five errors in his ratings were discovered, showing that he had been overpaid \$324.99 between September 1, 1918, and January 16, 1921. Under protest the employee signed an agreement allowing the carrier to deduct \$25 a month from his pay until the alleged overpayment should be absorbed.

An agreed statement of facts was submitted to the Labor Board, accompanied by three questions, the first, the only one of present concern, being whether the company was "justified in deducting its claim of overpayment for the period extending from September 1, 1918, to January 31, 1921." To this the Labor Board answered in the negative and rendered the following decision:

Nothing in the evidence indicates that the employee in question had knowledge that he was improperly rated or paid under the provisions of supplement 8 to General Order No. 27 until the carrier raised the question on or about February 14, 1921. The board, however, decides that the carrier was justified in making correction in the rate of pay for the period subsequent to February 14, 1921.

The board also directed that "subsequent adjustments are to be made in accordance with wage decisions issued by the Railroad Labor Board which are applicable to this carrier."

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Electrotypers—Boston

BOSTON Electrotypers Union No. 11 has recently made an agreement with the J. S. Cushing Co. (the Norwood Press), of Norwood, to expire May 24, 1925. The company agreed to employ not less than six journeymen members of the union, to hire only union men in the future, and to apply union scales and working conditions to the nonunion men in its electrotyping department "when those men have served the period of five years at the trade."

The weekly wage scale is as follows:

Foremen, not less than \$1 a day more than the scale of journeymen mo	lders or
Association	\$49. 50 47. 50
Builders and casters	44, 00 40, 50
Lumpers, optional.	

Forty-eight hours constitutes a week's work, to be performed between 7 a. m. and 5.30 p. m., with no work on Saturday after 12.30 p. m. Night forces work 40 hours, 5 nights per week. Overtime rates, time and a half; Sundays, holidays, Saturdays after 5 p. m. and other days after 10 p. m., double time.

Other clauses of interest are the following:

It is mutually understood and agreed by and between the parties hereto that the party of the first part will not institute or engage in any lockout, nor will the members of the party of the second part institute or engage in any strike or boycott during the term of this agreement.

The party of the second part reserves to its members the right to refuse to execute all struck electrotyping or stereotyping work received from or destined for unfair employing electrotypers or stereotypers.

Whenever any difference between the parties hereto shall arise as to the interpretation of this agreement, it shall be the duty of either party to this agreement to make a complaint in writing to the other party hereto, specifying the nature of said difference. Whereupon a board of conciliation shall be created under this agreement, to consist of two members of the party of the first part and two members of the party of the second part, each party having a voting power of two, which board of conciliation shall have power by a majority vote to finally adjust, settle, or regulate said difference. This board shall meet within one week after such difference shall be presented and render a decision thereon within three days thereafter. Should said board be unable to decide any difference submitted to it for determination, said board shall then by unanimous vote of the four members select an additional or fifth member within the period of 30 days. Should the board fail to select an additional or fifth member within the period of 30 days the selection of the fifth member shall immediately devolve upon a representative of the J. S. Cushing Co. and the president of the International Stereotypers & Electrotypers Union. The decision of such board of five, as then selected or constituted, shall be final and binding upon all parties thereto.

The union has practically the same agreement with Ginn & Co., of Cambridge; the Plimpton Press, of Norwood; Rumford Press, of Concord, N. H.; and has verbal agreements with establishments in Boston and Providence. At the Rumford Press the hours, however, are 44 a week and wages \$4 a week less than the rates given above.

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Painters, Decorators, and Paper Hangers-Pittsburgh

THE Brotherhood of Painters, Decorators, and Paperhangers of Pittsburgh recently adopted a revised scale of wages and working rules, effective until April 1, 1925, which contains among the working rules some interesting provisions as to safety and apprenticeship. As to safety, it is stipulated that when men are painting the outside of window frames above the third story, if swing work is not practical, safety belts must be furnished by the employer, and that employees have the right to test the safety and sanitary character of any appliance which they are obliged to use. Moreover, the employer must take out insurance against accident.

ARTICLE VIII

It shall be the privilege of the employer to build and move scaffolding as best adapted for the prosecution of the work and the safety of employee, and the employees have the privilege of testing out all scaffolding.

ARTICLE IX

Section 1. Where drop cloths and rags are used, they shall be furnished to workmen in a sanitary condition. No member shall be discharged for refusing to work with unsanitary materials or on a ladder or scaffolding which he considers unsafe.

unsafe.

SEC. 2. Journeymen shall be allowed sufficient time before the hour of 4.30 p. m., or quitting time, for the purpose of placing materials, brushes, etc., where such properly belong.

SEC. 3. All employers to this agreement must have their workmen insured for the protection of the employees in accordance with the workmen's compensation laws of the State of Pennsylvania.

The matter of apprenticeship is gone into quite carefully, the provisions in full being as follows:

ARTICLE X

Section 1. Each responsible contractor being a party to this agreement shall have the right to teach his trade to apprentices, and the said apprentices shall serve not less than three consecutive years, as herein prescribed and agreed upon by the Master Painters' Association and District Council No. 1.

SEC. 2. Apprentices shall be under the jurisdiction of District Council No. 1, which has the authority to control them and protect their interests subject to approved indentures entered into with their employers and adopted by District Council No. 1.

SEC. 3. Master painters shall not be entitled to employ an apprentice without first making application to the Master Painters' Association and District Council No. 1 and have the approval of the joint conference committee.

No. 1 and have the approval of the joint conference committee.

Sec. 4. Any boy engaging to learn the trade of painting, paper hanging, decorating, or other allied branches of our trade, must be over the age of 16 years and under the age of 21 years at the time of his registration, unless special dispensation is granted by District Council No. 1.

Sec. 5. Contractors taking an apprentice shall keep him steadily employed; failing to do so, he shall pay him the same as though he had been regularly employed by him.

Sec. 6. A contractor entitled to an apprentice, the said apprentice shall be under probation for 30 days, and if the apprentice shall be satisfactory he shall be registered by the Master Painters' Association and indentured by District Council No. 1.

SEC. 7. The rate of wages for an apprentice at the time of indenture shall in no case be less than \$15 per week for the first year, \$22 per week for the second year, and \$27 per week for the third year.

SEC. 8. An apprentice shall work for no other contractor than the one to whom he is apprenticed during the time of apprenticeship, except when an employer fails or retires from business, then the District Council No. 1 shall place the boy in another shop.

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Sec. 9. No contractor shall be entitled to an apprentice unless he employs at least five men for at least six months in the year, nor shall he be entitled to the second apprentice unless he employs on an average of 12 men a year.

SEC. 10. No apprentice working on jobs shall work more than 8 hours a day, Saturday 4 hours. Where apprentice has worked on job until noon Saturday

he shall not be required to work in the shop that Saturday afternoon.

Sec. 11. No apprentice shall be permitted to take charge of any job, nor shall any apprentice be allowed to work on any job unless there is at least one journeyman employed on the same job. Jobbing work excepted.

Sec. 12. No contractor shall be allowed an apprentice unless he has been

contracting for a period of one year.

Printing, Newspaper—New York City

AN AGREEMENT has recently been made between the Publishers' Association of New York City and Typographical Union No. 6, effective for two years and a half from January 1, 1924. The union had demanded a day of six hours but compromised on seven and a half. Under the terms of the new agreement the printers receive an increase of \$3 a week for the first six months of 1924, an additional dollar during the second six months, and another dollar on and after January 1, 1925, thus making the rates January 1, 1924, as follows: Day shifts \$58 a week; night shifts \$61 a week; third shifts \$64 a week; machine tenders, 1 to 12 machines, \$55.75; machine tenders, 13 or more machines, \$58.25.

The other provisions of the new agreement are essentially the same

as those of the old agreement.

Railroads—Board of Labor Adjustment—Boston & Maine Railroad

THE Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express and Station Employees, on March 1, 1924, signed an agreement with the Boston & Maine Railroad, creating an "Office and Station Service Board of Labor Adjustment" along the lines of the agreement creating the "Station Service Board of Adjustment" on the New York, New Haven & Hartford Railroad. (See Monthly Labor Review, February, 1924, pp. 132-134.) The New Haven board was created to hear, on appeal, cases that failed to be settled by division officials, with reference to the Railroad Labor Board by the Board of Adjustment in case of its inability to settle the matter in dispute. The board created by the agreement under review hears appeals from the general manager's office, reference being provided to the Railroad Labor Board or other arbitrators in case of the board's inability to settle the matter. The text of the agreement follows:

Whereas it is our desire to cooperate in the disposition of certain grievances and disputes which arise in the normal course of events, between ourselves and

without reference to any outside agency, it is, therefore, agreed:

1. There shall be created as soon as practicable, and not later than April 1, 1924, a board to be known as "Office and Station Service Board of Labor Adjustment, Boston & Maine Railroad," hereinafter referred to as the board.

2. The board shall be composed of six members; three to be appointed by the organization and three by the railroad, for a term of one year, subject to reappointment.

3. Should a vacancy occur on the board, such vacancy shall immediately be filled by the same authority as made the original selection.

4. The board shall immediately upon appointment of its members choose a chairman and a vice chairman and one or the other shall preside at all meetings of the board.

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5. The chairman and vice chairman shall serve for periods of six months and representatives of the organization and of the railroad shall alternate in filling the positions. When the chairman is a representative of the railroad the vice chairman shall be a representative of the organization and vice versa.

6. All meetings of the board shall be held at Boston, Mass., except when a majority shall decide the case to be heard, or some other reason in their judgment

warrants meeting elsewhere.

7. Decisions rendered by the board shall be binding upon both parties and are not subject to appeal to the United States Railroad Labor Board or any other tribunal.

8. A majority vote of the full board will be necessary for a decision.

9. Cases not decided in accordance with Rule 8 at one session may be placed on the table for reconsideration at the next succeeding session. If no decision is reached either party may, if desired, call upon the other to join in submission of the dispute to the United States Railroad Labor Board, which request will be promptly complied with; or, by unanimous agreement of the board, the case may be referred to any other arbitrator or arbitrators, and the decision of such arbitrator or arbitrators when made shall be final and binding upon both parties.

10. Disputes arising will be handled as heretofore up to and including the general manager's office. If decision given by that office is not satisfactory to

the organization, the case may be appealed to the board.

(a) It will be proper for the board to receive and handle disputes growing out of personal grievances or out of the interpretation or application of schedule or practices now in effect or hereafter established.

(b) No dispute of the nature outlined in preceding paragraph will be handled which has arisen out of occurrences prior to August 10th, 1922, unless now

pending

(c) All disputes arising out of proposed changes in rates of pay, rules or working conditions are specifically excluded from the jurisdiction of the board, unless such question is expressly, jointly referred to the board for decision.

11. The board shall have authority to make its own regulations as to when they shall meet, what records they shall keep and all other matters pertaining to

their activities, except such as are specifically covered by this agreement.

12. The organization and the railroad, respectively, will compensate its own appointed representatives on the board and personal expenses, if any, will be cared for in the same manner. Any general expenses which may be incurred will be divided between the organization and railroad on a 50-50 basis.

13. In each case presented to the board an effort will be made to present a joint concrete statement of facts, but the board is authorized to require information in addition to the statement of facts and may call for additional evidence, either oral or written, from either side. Either party shall be entitled to an oral hearing before the board upon request.

14. This agreement shall become effective as specified in section 1 hereof and shall remain in full force and effect until canceled by thirty (30) days' notice,

given by either party to the other.

15. This agreement can only be changed or modified by mutual consent given in writing, the change or modification to be signed in the same manner as this agreement is signed.

Railroads—Conductors and Trainmen

THE Order of Railway Conductors and the Brotherhood of Railroad Trainmen have concluded negotiations with the Association of Western Railways representing 43 carriers and including 85,000 employees. The roads agreeing to the settlement are as fol-

Atchison, Topeka & Santa Fe Railway Co.

Belt Railway Co. of Chicago. Chicago & Eastern Illinois Railway Co.

Chicago and Western Indiana Railroad Co.

Chicago and North Western Railway Co.

Chicago, Burlington & Quincy Railroad Co. Chicago Great Western Railroad Co.

Chicago, Milwaukee & St. Paul Railway Co.

Chicago, Rock Island & Pacific Railway Co.

Chicago, St. Paul, Minneapolis & Omaha Railway Co.

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Colorado & Southern Railway Co.

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Davenport, Rock Island & Northwestern Railway Co.
Des Moines Union Railway Co.
El Paso & Southwestern System.
Fort Worth & Denver City Railway Co.
Great Northern Railway Co. Gulf Coast Lines. Houston Belt & Terminal Railway Co. Illinois Central Railroad Co. Kansas City Southern Railway Co.
Kansas City Terminal Railway Co.
Minneapolis, St. Paul & Sault Ste. Marie Railway Co.
Minnesota Transfer Railway Co.
Missouri, Kansas & Texas Railway Co.
Missouri Pacific Railroad Co. Missouri Pacific Railroad Co.
Northern Pacific Railway Co.
Peoria & Pekin Union Railway Co.
St. Joseph Belt Railway Co.
St. Paul Bridge & Terminal Railway Co.
St. Louis-San Francisco Railway Co.
St. Louis-San Francisco Railway Co.
St. Louis Southwestern Railway Co.
San Antonio & Aransas Pass Railway Co.
Southern Pacific Lines—Texas & Louisiana.

Southern Pacific Lines—Texas & Louisiana.
Spokane, Portland & Seattle Railway Co.
Terminal Railroad Association of St. Louis.
Texas & Pacific Railway Co.
Trans-Mississippi Terminal Railroad Co.
Trinity & Brazos Valley Railway Co.
Union Pacific Railroad Co.
Union Railway Co. (Memphis, Tenn.)
Union Stock Yards Co. of Omaha (Ltd.).
Wabash Railway Co. Wabash Railway Co. Western Pacific Railroad Co.

The agreement provides for increases in pay from April 1, 1924, and changes in rules to be effective May 1. The increases for passenger service are 30 cents per day, 2 mills per mile, \$9 per month; for freight service, 36 cents per day, 3.6 mills per mile; and for yard service, 32 cents per day.

The same money increases shall apply to milk, mixed and miscellaneous train service as are applied to the service in which they are now classified. Where there is a separate rate for milk, mixed or miscellaneous classes of service, it shall beincreased in the same amount as is applied to the service in which now classified.

Passenger service

Effective May 1, 1924, the following additional section of article in different schedules corresponding with Article IV of Supplement No. 25 to General Order No. 27 will apply.

When the monthly earnings of regularly assigned passenger trainmen from daily guarantees, mileage, overtime, and other rules do not produce the following average amounts per day, they will be paid for each day service is performed:

	Per day
Conductors	\$7.00
Assistant conductors or ticket collectors.	5. 80
Baggagemen handling both express and dynamo	5. 84
Baggagemen operating dynamo	5. 50
Baggagemen handling express	5. 50
Baggagemen	5. 16
Flagmen and brakemen	5. 00

When extra men fill vacancies in regular positions, they take conditions of the regular positions. Service performed by extra men not filling place of regular men will be paid not less than the daily earning minima for each day service is performed.

It is understood that disposition will be made of rules in the various schedules as indicated herein.

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1. Substitute 20 miles per hour speed basis rule for rules in agreements which provide that overtime will be paid on a higher speed basis, on schedule of trains when one hour late, etc.; provided that roads paying actual miles will adopt the standard basic mileage day rule; that is, will pay for not less than 150 miles, computed from the beginning of the day as named by the company.

Note.—It is understood that the foregoing includes all standard provisions (as provided for by Federal wage supplements) governing speed basis for 1.

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overtime and minimum day. 2. Under the operation of the 8 within 10 hour rule, where excessive overtime earnings accrue, or where the carriers are penalized by limitation as to the number of trips which may be made in a day's assignment, or where present rule is inequitable to conductors and trainmen, the management and the committees shall enter into negotiations with a view of eliminating such inequalities.

3. The mileage and daily rates established by this agreement applied to 150 miles divided by 8 will be overtime rate, preserving existing higher overtime rates.

4. The managements and committees shall enter into negotiations with a view of eliminating tabulations of passenger assignments and not restrict the manage. ments' rights to rearrange service to the extent provided for in Supplements Nos. 16 and 25; negotiations shall also include rearrangement of combination of assignments to equalize mileage on equitable basis, provided there shall be no absorption of constructive mileage or reduction of crews as of January 1, 1919. except where specifically agreed upon.

Freight service

1. Men in pool or irregular freight service may be called to make short trips or turn-arounds with the understanding that one or more turn-around trips may be started out of the same terminal and paid actual miles, with minimum of 100 miles for a day; provided: (1) That the mileage of all the trips does not exceed 100 miles, and (2) that men shall not be required to begin work on a succeeding trip out of initial terminal after having been on duty 8 consecutive hours, except as a new day, subject to the first-in-first-out rule or practice.

2. (a) When a crew is required to make an emergency side or lap back trip between their terminals within the scope of Supplement 25, miles made will be added to the mileage of the regular trip and paid for on continuous basis.

(b) Short trips from a terminal to an outlying point and return, from an outlying point to a terminal and return, or from an intermediate point to another intermediate point and return, on account of engine failure, running for fuel or water, running for wreck car or carmen, or on account of a derailment, when such conditions arise in connection with their own train, will be paid continuous time or mileage.

3. Where excessive overtime earnings accrue in branch line turn-around service the managements and committees should negotiate thereon with a view of establishing greater equity.

4. Existing schedule provisions limiting double heading of trains and use of helpers or pushers will be modified to provide—

(a) With trains of over 40 cars, exclusive of cabooses, double-heading is prohibited, except as hereinafter stated:

(b) Double-headers may be run on any district provided the rating of largest

engine handling the train is not exceeded.

(c) In case of an accident to an engine, consolidation may be effected with another train and consolidated train brought into terminal as a double-header, if practicable.

(d) It is recognized that the exigencies of the business may require additional helper service to that provided for, in which event the matter shall be settled by negotiations between the managements and committees, and provisions for pusher or helper service may be made by managements and committees for pusher or helper engines on any district to maintain the tonnage intact over

5. Schedule provisions limiting the amount of tonnage which may be hauled by one engine are eliminated.

Yard service

1. Exceptions to starting-time rules may be agreed upon by the managements and general committees to cover local service requirements.

2. On roads where hardships are caused by rules in yard schedules providing the pay of yardmen shall continue until they reach the point at which they started work, the managements and the committees should jointly negotiate a rule that is equitable to afford relief in such yards or terminals.

General

1. Managements and committees shall negotiate to determine whether there are unnecessary employees or service.

2. In order that there be more nearly uniform deadhead rules in western territory, committees and managements should negotiate a rule to the effect that deadheading due to the voluntary exercise of seniority will not be paid for.

3. This agreement applies on all railroads parties to these negotiations, except

(a) The individual carrier may adopt or reject any rule or rule revision, but may not reject the increased rates, subject to paragraph (b).

(b) The conductors or trainmen as a class on an individual road may elect to keep rates and rules they heretofore had in their entirety in lieu of rates and such of the items herein provided as the individual carriers may elect to adopt.

4. In event management and committee on any railroad, party hereto, fails within 30 days to arrive at an agreement on any of the items contained herein, including negotiating equitable rules referred to, the disagreement may be referred by either party to a commission consisting of two representatives of the carriers and one each of the Order of Railway Conductors and Brotherhood of Railroad Trainmen selected from present conferees with full power to agree and whose decision shall be final.

Statement setting forth disagreement should be mailed not later than May 28, 1924, to the Commission for Carriers and Order of Railway Conductors and Brotherhood of Railroad Trainmen, 1864 Transportation Building, 608 South Dearborn Street, Chicago, Ill. Preferably the statement should be sent in jointly rather than ex parte, and in either event should show—

(a) Detailed statement of facts.

(b) Proposition submitted by each party.

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(c) Argument in support of final proposition submitted by respective parties. 5. No changes will be made in schedules except as specifically provided herein, unless by mutual agreement. All to remain in effect until December 31, 1925, and thereafter subject to the usual 30 days' notice of change.

Railroads—Locomotive Engineers and Firemen—Wage Increases

THE following roads have recently granted increases in wages to their engine crews of from 5 to 6 per cent:

Arkansas & Louisiana Missouri Railway Co.
Atlantic Coast Line Railroad Co.
Baltimore & Ohio Railroad Co.
Backer & Lake Frie Reilroad Co. Baltimore & Ohio Railroad Co.
Bessemer & Lake Erie Railroad Co.
Boston & Albany Railroad Co.
Buffalo Creek Railroad Co. Buffalo Creek Railroad Co.
Central New England Railway Co.
Central of Georgia Railway Co.
Central Railroad Co. of New Jersey.
Chesapeake & Ohio Railway Co.
Chicago Junction Railway Co.
Chicago River & Indiana Railroad Co.
Cincinnati Northern Railroad Co.
Cleveland, Cincinnati Chicago & St. Louis Bailway Co. Cincinnati Northern Railroad Co.
Cleveland, Cincinnati, Chicago & St. Louis Railway Co.
Delaware, Lackawanna & Western Railroad Co.
Elgin, Joliet & Eastern Railway Co.
Eric Railroad Co.

Evansville, Indianapolis & Terre Haute Railway Co.

Georgia Southern & Florida Railway Co. Hocking Valley Railway Co.

Indiana Harbor Belt Railroad Co.
Kanawha & Michigan Railway Co.
Kanawha & West Virginia Railroad Co.
Lake Erie & Eastern Railroad Co.

Lake Erie & Eastern Railroad Co.
Lakeside & Marblehead Railroad Co.
Lehigh Valley Railroad Co.

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Louisville & Jeffersonville Bridge & Railroad Co.
Louisville & Nashville Railroad Co.
Michigan Central Railroad Co.
Mobile & Ohio Railroad Co.
Muncie Belt Railway Co.
Nashville, Chattanooga & St. Louis Railway.
New York Central Railroad Co.
New York, Chicago & St. Louis Railroad Co.
New York, New Haven & Hartford Railroad Co.
New York, Ontario & Western Railway Co.
Norfolk Southern Railroad Co.
Pennsylvania Railroad Co.
Peoria & Eastern Railway Co.
Philadelphia & Reading Railway Co.
Pittsburgh & Lake Erie Railroad Co.
Pittsburgh & West Virginia Railway Co.
Rutland Railroad Co.
Seaboard Air Line Railway Co.
Southern Railway Co.
Staten Island Railway Co.
Toledo & Ohio Central Railway Co.
Toledo, St. Louis & Western Railroad Co.
Washington Terminal Co.
Wheeling & Lake Erie Railway Co.
Zanesville & Western Railway Co.

Street Railways—Atlanta

A DECISION was rendered by a board of arbitration, March 24, 1924, relative to the wages for 1924 of the members of the Amalgamated Association of Street and Electric Railway Employees, Division 732, of Atlanta, and their employer, the Georgia Railway & Power Co. At the hearings before the board the employees requested an increase in wages of 25 per cent, contending "that existing scales do not afford a living wage," while the company stated that it was unable to grant any increase in wages "because of the insufficiency of its revenues under existing fares, and that the wages it now pays are fairly compensatory for the services rendered by its employees, and, in fact, do constitute a living wage."

The board found that—

The evidence before the board is that for 1923 approximately 42 per cent of the gross revenue of the railway department of the company for the year 1923 was used to meet the pay rolls of that department under existing wage scales and salaries: 37½ per cent to meet other necessary expenses, purchase supplies and material, and 8½ per cent to pay tax charges, making in all approximately 88 per cent to meet expenses absolutely necessary in rendering service. Out of the remaining 12 per cent, interest on bonds, rentals and replacement of property worn out in service, and contingencies must be cared for.

After considering the contentions of both sides, the rights of the public, and the general welfare of the community, the board granted a slight increase, which, by agreement between the company and its employees, was adopted as the rate for 1924.

The new hourly rates for 1923 and 1924 are as follows:

Motormen and conductors:	had berling	Hells	1923	1924
First 9 months	 _4.2.4.2.1.1.1.		(1)	\$0.43
Second 9 months	 Jeep 1991 John	11111	(1)	. 48
Thereafter	 De Debuglish	LITTE	(1)	. 51

¹ The periods in 1923 were one year and two years, during which the wages were 40 cents and 45 cents, respectively, with 48 cents thereafter.

	1923	1924
Welder helpers	\$0.44	\$0.47
Grinder helpers	. 35	. 38
(Illiuot not)	. 40	. 43
	. 44	. 47
Bridge carpenters	. 451	. 481
. ACOL 1. A . T	. 481	$.51\frac{1}{2}$
Car-barn inspectors in service January 1, 1922:	44	477
First year	. 44	. 47
Second year.	. 46	. 49
Third year	. 48	. 51
Fourth year Thereafter	. 49	. 52
Car-barn inspectors employed after January 1, 1922:	. 50	. 53
First vear	. 40	. 43
	. 42	. 45
Second year	. 44	. 47
Third year		
Fourth yearThereafter	. 47	. 50
Motor and truck repairmen in service January 1, 1922:	. 50	. 53
	. 44	. 47
First year Second year	. 46	
		. 49
Third year	. 48	. 51
Fourth year Fifth year	. 49	. 52
	. 50	. 53
Thereafter Motor and truck repairmen employed after January 1, 1922:	. 32	. 55
Motor and truck repairmen employed after January 1, 1922:	. 40	. 43
First year	. 42	
Second year		. 45
Third year	. 44	
Fourth year	. 46	. 49
Fifth year	. 49	. 52
Thereafter	. 34	
I the building was probled its affect and the amount of	50	. 47
	. 50	. 53
Carpenters	65	. 68
artino, as the them-redrond our sheps and appear		. 73
	. 75	. 78
	Per week	Per week
Track, stock yard, quarry, and bridge foremen	\$36.00	\$39.60
Subforemen	31. 00	34. 10
First-class welder and grinder foremen	33. 50	36. 85
Second-class welder and grinder foremen	30. 50	33. 55
Work-car motormen	33. 50	36, 85
Truck drivers	30, 00	33. 00

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EMPLOYMENT AND UNEMPLOYMENT

Employment in Selected Industries in April, 1924

EMPLOYMENT in manufacturing industries in the United States decreased 2.1 per cent in April; pay-roll totals decreased 2.5 per cent; and per capita earnings decreased 0.4 per cent. These unweighted figures are presented by the United States Department of Labor through the Bureau of Labor Statistics and are based on reports from 8,422 establishments in 52 industries covering 2,706,709 employees whose total earnings during one week in April were \$71,966,302. The same establishments in March reported 2,765,953 employees and total pay rolls of \$73,834,536.

Comparison of Employment in April, 1924, and March, 1924

COMPARING April and March reports from identical establishments, increases in employment are shown in 10 of the 52 in-

dustries and increases in pay-roll totals in 11 industries.

The brick, tile, and terra cotta and ice cream industries were the only industries showing increases of considerable size. The first named gained 8.5 per cent in employment and 10.4 per cent in earnings, and the last gained 7.7 per cent in employment and 7 per cent in earnings, both of these industries having begun their active season. The approach of the building season had its effect upon the sawmill, millwork, and cement industries, all of which gained both in employment and earnings, as did steam-railroad car shops and newspaper printing establishments. The steam fittings industry gained in employment, but lost slightly in pay-roll totals.

The men's clothing industry showed the greatest loss in employment and in employees' earnings in April, the percentages being 11.4 and 16.6 respectively. Other industries showing large losses in both items were confectionery, agricultural implements, carpets, boots and shoes, woolen and worsted goods, and stamped and enameled ware. The fertilizer industry having closed its shipping season dropped 6.4 per cent of its employees. The two tobacco industries showed large decreases in pay-roll totals, with smaller decreases in em-

ployment.

The stone, clay, and glass group of industries and the lumber group were the only groups which showed increased employment and earnings. The first gained over 2 per cent in both items and the last less than 1 per cent in both items. The leather and stamped ware groups lost 5.2 per cent each in employment, the textile group lost 4.4 per cent, the food group 3.8 per cent, the tobacco group 3.3 per cent, and the vehicle group 2.6 per cent. The leather group decreased 8.9 per cent in pay-roll totals, the tobacco industries 8.4 per cent, and the textile group of industries decreased 6.8 per cent.

For convenient reference the latest figures available relating to all employees, excluding executives and officials, on Class I railroads, drawn from Interstate Commerce Commission reports, are given at

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the foot of the first and second tables.

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COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN MARCH AND APRIL, 1924

or movetod manimum	Es- tab-	Number o	on pay roll	Per	Amount	of pay roll	Per
Industry	lish- ments	March, 1924	April, 1924	cent of change	March, 1924	April, 1924	cent of
Food and kindred products	921	179,140	172,402	-3.8	\$4,469,625	\$4,288,529	-4.
Slaughtering and meat packing	84	85, 357	81, 512	-4.5	2, 098, 284	1, 981, 987	-5.
Confectionery		17, 255	15, 704	-9.0	321, 854	291, 097	-9.
Ice cream		5, 060 15, 062	5, 452 14, 559	+7.7 -3.3	158, 516 399, 049	169, 597 376, 267	+7. -5.
Baking	315	45, 831	44, 866	-2.1	1, 170, 062	1, 156, 939	-1.
ower refining cane	14	10, 575	10, 309	-2.5	321, 860	312, 642	-2.
Textiles and their products	1,570	552,348	527,858	-4.4	11,059,527	10,303,723	-6.
Cotton goods	305	184, 993	177, 280	-4.2	3, 040, 565	2, 869, 682	-5.
Hosiery and knit goods		77, 641 54, 015	76, 305 52, 294	-1.7 -3.2	1, 382, 471	1, 352, 199	$-2. \\ -3.$
Woolen and worsted goods	179	71, 754	67, 976	-5. 3	1, 129, 791 1, 624, 970	1, 093, 264 1, 493, 981	-3. -8.
Carpets	24	21, 971	20, 742	-5.6	633, 515	555, 870	-12.
Dueing and finishing textiles	73	27, 696	27, 476	-0.8	640, 199	632, 520	-1.
Clothing, men's	221	58, 841	52, 105	-11.4	1, 466, 272	1, 223, 605	-16.
Shirts and collars Clothing, women's	96	25, 866	25, 084	-3.0	390, 469	382, 944	-1.
Millinery and lace goods.	158 78	16, 785 12, 786	16, 104 12, 492	-4.1 -2.3	460, 058 291, 217	417, 305 282, 353	-9. -3.
ron and steel and their products		592,589	588,623	-0.7	17,756,780	17,439,833	-1.
Iron and steel	209	280, 553	278, 911	-0.6	8, 715, 398	8, 487, 343	-2.
Structural ironwork	158	19, 820	19, 629	-1.0	545, 935	550, 920	+0.
Foundry and machine-shop prod-	000	171 170	100 489	10	4 000 500	4 000 001	0
ucts Hardware	620 55	171, 152 36, 523	169, 471 36, 519	-1.0	4, 993, 503 929, 360	4, 969, 001 901, 592	-0. -3.
Machine tools	185	25, 776	25, 057	-2.8	748, 135	732, 126	-2.
Steam fittings and steam and hot-	200	20, 110	20, 007	26.0	7 20, 200	102, 120	
water heating apparatus	130	41, 125	41, 902	+1.9	1, 283, 673	1, 281, 037	-0.
Stoves	85	17, 640	17, 134	-2.9	540, 776	517, 814	-4.
amber and its products Lumber, sawmills	450	203,095 115, 689	204,289 117,458	+0.6	4,473,973	4,509,798 2,462,696	+0.
Lumber, millwork	254	32, 675	33, 159	+1.5 +1.5	2, 426, 801 797, 709	817, 104	+2
Furniture		54, 731	53, 672	-1.0	1, 249, 463	1, 229, 998	-1.
eather and its products	343	123,177	116,730	-5.2	2,838,682	2,587,172	-8.
Leather		26, 796	25, 737	-4.0	681, 609	645, 422	-5.
Boots and shoes		96, 381	90, 993	-5.6	2, 157, 073	1, 941, 750	-10. 0.
Paper and printing		144,125 50, 237	143,596 50, 125	-0.4 -0.2	4,485,985 1,356,832	1, 335, 463	-1.
Paper boxes	154	16, 767	16, 548	-1.3	354, 641	346, 585	-2
Printing, book and job	251	32, 271	31, 629	-2.0	1,071,706	1, 063, 290	-0.
Printing, newspaper	188	44, 850	45, 294	+1.0	1, 702, 756	1, 731, 728	+1.
hemicals and allied products	254	72,606	71,897	-1.0	2,071,818	2,050,509	-1.
ChemicalsFertilizers	91	18, 954 11, 461	18, 665 10, 723	-1.5 -6.4	509, 991 200, 805	501, 200 195, 762	1. 2.
Petroleum refining		42, 191	42, 509	+0.8	1, 361, 022	1, 353, 547	-0.
tone, clay, and glass products	626	105,181	107,665	+2.4	2,788,184	2,859,782	+2.
Cement	79	24, 162	24, 585	+1.8	688, 417	708, 747	+3.
Brick, tile, and terra cotta	350	26, 323	28, 573	+8.5	666, 052	735, 455	+10.
Pottery	51 146	12, 728 41, 968	12, 804	+0.6	356, 792 1, 076, 923	356, 149	-0. -1.
Glassetal products, other than from	140	41, 900	41, 703	-0.6	1, 070, 920	1, 059, 431	A.
and steel	42	14,969	14,194	-5.2	372,452	350,911	-5.
Stamped and enameled ware	42	14, 969	14, 194	-5.2	372, 452	350, 911	-5.
obacco products	212	39,976	38,675	-3.3	728,088	666,891	-8.
Chewing and smoking tobacco		7, 908	7, 784	-1.6	131, 071	116, 438	-11. -7.
Cigars and cigarettesehlcles for land transportation	178	32, 068 504.391	30, 891 491, 262	-3.7 -2.6	597, 017 16, 154, 571	550, 453 15,902,316	-1.
Automobiles	227	339, 123	324, 797	-4.2	11, 376, 482	10, 995, 835	-3.
Carriages and wagons	41	3, 021	2,977	-1.5	72, 678	72, 937	+0.
Car building and repairing, electric-				0.7			
railroad	188	16, 519	16, 440	-0.5	\$490, 178	\$482, 435	-1,
Car building and repairing, steam- railroad	321	145, 728	147, 048	+0.9	4, 215, 233	4, 351, 109	+3.
iscellaneous industries	400	234,356	229,518	-2.1	6,634,901	6,529,772	-1.
Agricultural implements	109	26, 531	24, 695	-6.9	726, 675	668, 704	8.
Electrical machinery, apparatus							
and supplies	134	107, 802	106, 522	-1.2	3, 055, 227	3, 017, 517	-1.
Pianos and organs	35	8, 410	8, 068	-4.1	244, 295	233, 710	-4. -5.
Rubber boots and shoes	11 75	16, 945 48, 501	16, 254 48, 406	-4. 1 -0. 2	389, 299 1, 477, 061	369, 425 1, 490, 010	+0.
Automobile tires Shipbuilding, steel	36	26, 167	25, 573	-2.3	742, 344	750, 406	+1.
Total	8,422		2,706,709	-2.1		71,966,802	-2.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
allroads, Class I { Feb. 15,1924 Mar. 15,1924		1, 737 1, 743		+0.4		859, 559 345, 120	-4.7

¹ Less than one-tenth of 1 per cent.

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Amount of pay roll for one month.

Comparison of Employment in April, 1924, and April, 1923

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REPORTS are available from 5,772 establishments in 46 industries for a comparison of employment and earnings between April, 1924, and April, 1923. These reports, from identical establishments in the two years, show a decrease of 5.2 per cent in employment in 1924, a decrease of 2 per cent in pay-roll totals, and an increase of 3.4 per cent in per capita earnings. The total number of employees covered in April, 1924, was 2,045,189, and their earnings amounted to \$54,939,432, while the number of employees in April, 1923, was 2,158,055, and their earnings amounted to \$56,043,735.

There were gains in employment in April, 1924, in only 13 of the 46 industries and gains in the earnings of employees in 20 industries. For the third month in succession the pottery industry shows very large gains in the 12-month period both in employment and earnings, the April, 1924, increases being 14.2 per cent and 21.2 per cent, respectively. The iron and steel industry gained 8.7 per cent in number of employees and 17.5 per cent in earnings. Among other industries which gained both in numbers of employees and pay-roll totals were cement, sugar refining, electrical goods, automobiles, book and job and newspaper printing, and sawmills and millwork. These increases however were all considerably smaller than those in the pottery and iron and steel industries.

The decreases in employment in the 12-month period were exceptionally large in a majority of the 33 industries which lost in in employment, as shown in the following list: Steam-railroad car shops, 19.7 per cent; agricultural implements, 18.2 per cent; foundry and machine shops, 18 per cent; men's clothing, 16.5 per cent; automobile tires, 15.9 per cent; cotton goods, 14.7 per cent; carriages, 13.7 per cent; leather, 13.1 per cent; shipbuilding, 12.4 per cent; shirts and collars, 12.2 per cent; sugar refining, 11.8 per cent; woolen goods, 11.6 per cent; stoves 11.4 per cent; millinery and lace goods, 10.8 per cent; and boots and shoes, 10.3 per cent. In 6 of these industries the decrease in pay-roll totals was even greater than the loss in employment, the greatest decreases being 22.5 per cent in men's clothing, 20.7 per cent in cotton goods, and 19.6 per cent in automobile tires.

The stone, clay, and glass group of industries was the only group showing an increase of employment (1.6 per cent) in April, 1924, as compared with April, 1923. The textile and leather groups showed a decrease of 11 per cent each, and the other 9 groups showed decreases ranging from 10 per cent to less than 1 per cent.

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COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN APRIL, 1923, AND APRIL, 1924

36 518 69 306 47 96 33 33 189 25 164 463 170 32 261 808 72	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366 2, 756 135, 862 191, 641 24, 909 97, 004 7, 148 47, 963 14, 617	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485 2, 378 109, 057 179, 805 20, 387 99, 144 7, 113 40, 354 12, 807	-12.5 +1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3 -6.5 -4.2 +3.8 -13.7 -19.7 -6.2 -18.2 +2.2 -0.5 -15.9 -12.4	1, 102, 069 2, 199, 217 567, 512 543, 822 273, 216 814, 667 279, 079 279, 079 574, 188 47, 713 526, 475 12,870,383 8, 899, 723 64, 257 3, 906, 403 5, 394, 451 647, 917 2, 592, 502 204, 694 1, 530, 212 419, 126	988, 283 2,350,503 622,281 578,798 331,026 818,398 277,413 277,413 535,139 50,148 484,991 12,832,298 9,540,073 57,319 3,234,906 5,221,753 556,954 2,818,231 205,883 1,230,139 410,546	-10.3 +6.8 +9.7 +6.4 +21.2 +0.4 -0.6 -6.8 +5.1 -7.1 -0.8 -7.2 -10.8 -17.3 -14.6 -19.6 -2.6
518 69 306 47 96 33 33 189 25 164 463 170 32 261 808 72	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366 2, 756 135, 862 191, 641 24, 909 97, 004 7, 148	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485 2, 378 109, 057 179, 805 20, 387 99, 144 7, 113	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3 -6.5 -4.2 +3.8 -13.7 -6.2 -18.2 +2.2 -0.5	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383 8,899,723 64,257 3,906,403 5,394,451 647,917 2,592,502 204,694	988, 283 2,350,508 622,281 578,798 331,026 818,398 277,413 277,413 535,139 50,148 484,991 12,832,298 9,540,073 57,319 3,234,906 5,221,753 556,954 2,818,231 205,883	-10.3 +6.6 +9.7 +0.6 +21.3 +0.6 -0.6 -6.8 +5.1 -7.9 -0.4 +7.1 -10.8 -17.5 -14.0 +8.1 +0.0
518 69 306 47 96 33 33 189 25 164 463 170 32 261 808 72	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366 2, 756 135, 862 191, 641 24, 909 97, 004	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485 2, 378 109, 057 179, 805 20, 387 99, 144	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3 -6.5 -4.2 +3.8 -13.7 -19.7 -6.2 -18.2 +2.2	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383 8,899,723 64,257 3,906,403 5,394,451 647,917 2,592,502	988, 283 2,350,503 622,281 578,798 331,026 818,398 277,413 535,139 50,148 484,991 12,832,298 9,540,073 57,319 3,234,906 5,221,753 556,954 2,818,231	-10.2 +6.9 +9.7 +6.4 +21.2 +0.8 -0.6 -6.8 +5.7 -7.9 -7.9 -17.2 -14.4 +8.4
518 69 306 47 96 33 33 189 25 164 463 170 32 261 808 72	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366 2, 756 135, 862 191, 641 24, 909	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485 2, 378 109, 057 179, 805 20, 387	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3 -6.5 -4.2 +3.8 -13.7 -19.7 -6.2 -18.2	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383 8,899,723 64,257 3,906,403 5,394,451 647,917	988, 283 2,350,503 622,281 578,798 331,026 818,398 277,413 277,413 535,139 50,148 484,991 12,832,298 9,540,073 57,319 3,234,906 5,221,753 556,954	-10.2 +6.5 +9.7 +6.6 +21.2 +0.8 -0.6 -6.8 +5.7 -7.9 -10.8 -17.2 -3.6 -14.6
518 69 306 47 96 33 33 189 25 164 463 170 32 261 808	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366 2, 756 135, 862 191, 641	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485 2, 378 109, 057 179, 805	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3 -6.5 -4.2 +3.8 -13.7	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383 8,899,723 64,257 3,906,403 5,394,451	988, 283 2,350,508 622,281 578,798 331,026 818,398 277,413 277,413 535,139 50,148 484,991 12,832,298 9,540,073 57,319 3,234,906 5,221,753	-10.3 +6.6 +9.7 +0.6 +21.3 +0.6 -0.6 -6.8 +5.1 -7.1 -0.0 -7.1 -10.8
518 69 306 47 96 38 33 189 25 164 468 170 32	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366 2, 756 135, 862	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485 2, 378 109, 057	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3 -6.5 -4.2 +3.8 -13.7	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383 8,899,723 64,257 3,906,403	988, 283 2,850,503 622,281 578,798 331,026 818,398 277,413 535,139 50,148 484,991 12,832,298 9,540,073 57,319 3,234,906	-10.2 +6.6 +9.7 +6.4 +21.2 +0.4 -0.6 -6.8 +5.1 -7.2 -10.8
518 69 306 47 96 33 33 189 25 164 463 170 32	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366 2, 756	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485 2, 378	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -10.1 -5.9 -0.3 -6.5 -4.2 +3.8 -13.7	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383 8,899,723 64,257	988, 283 2,350,503 622,281 578,798 331,026 818,398 277,413 277,413 535,139 50,148 484,991 12,832,298 9,540,073 57,319	-10.3 +6.4 +9.7 +6.4 +21.3 +0.4 -0.6 -6.8 +5.1 -7.5 -0.8 +7.3
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518 69 306 47 96 33 33 189 25 164 463 170	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 32, 848 3, 137 29, 711 401, 984 263, 366	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 10, 729 30, 905 3, 129 27, 776 384, 920 273, 485	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3 -6.3 -4.2 +3.8	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383 8,899,723	988, 283 2,850,503 622,281 578,798 331,026 818,398 277,413 277,413 535,139 50,148 484,991 12,832,298 9,540,073	-10.3 +6.9 +9.7 +6.4 +21.3 +0.4 -0.6 -6.8 +5.1 -0.8 +7.3
518 69 306 47 96 33 33 189 25 164	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137 29, 711	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 10, 729 30, 905 3, 129 27, 776	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -10.1 -5.9 -0.3 -6.5 -4.2	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713 526,475 12,870,383	988, 283 2,350,503 622,281 578,798 331,026 818,398 277,413 277,413 585,139 50,148 484,991	-10:3 +6:8 +9:7 +6:4 +21:2 +0:8 -0:6 -6:8 +5:1
518 69 306 47 96 33 33 189 25	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32, 848 3, 137	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 10, 729 30, 905 3, 129	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9 -0.3	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188 47,713	988, 283 2,850,503 622, 281 578, 798 331, 026 818, 398 277,413 277,413 535,139 50,148	-10:3 +6:8 +9:7 +6:4 +21:2 +0:8 -0:6 -6:6 +5:1
518 69 306 47 96 33 33 189	35, 144 86,230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930 32,848	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 10, 729 30, 905	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1 -5.9	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079 574,188	988, 283 2,850,503 622,281 578,798 331,026 818,398 277,413 277,413 535,139	-10.3 +6.8 +9.7 +6.4 +21.2 +0.8 -0.6 -6.8
518 69 306 47 96	35, 144 86,230 20, 774 22, 643 10, 354 32, 459 11, 930 11, 930	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298 10, 729 10, 729	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1	2,199,217 567,512 543,822 273,216 814,667 279,079 279,079	988, 283 2,350,503 622, 281 578, 798 331, 026 818, 398 277,413 277,413	-10.3 +6.8 +9.7 +6.4 +21.3 +0.8
518 69 306 47 96	35, 144 86, 280 20, 774 22, 643 10, 354 32, 459 11, 930	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298	+1.6 +5.7 -0.4 +14.2 -3.6 -10.1	2,199,217 567,512 543,822 273,216 814,667 279,079	988, 283 2,350,503 622, 281 578, 798 331, 026 818, 398 277,413	-10.3 +6.6 +9.7 +6.4 +21.3 +0.8
518 69 306 47 96	35, 144 86, 230 20, 774 22, 643 10, 354 32, 459	30, 740 87, 648 21, 967 22, 556 11, 827 31, 298	+1.6 +5.7 -0.4 +14.2 -3.6	2,199,217 567,512 543,822 273,216 814,667	988, 283 2,350,503 622, 281 578, 798 331, 026 818, 398	-10.3 +6.9 +9.7 +6.4 +21.2 +0.8
518 69 306 47	35, 144 86, 230 20, 774 22, 643 10, 354	30, 740 87,648 21, 967 22, 556 11, 827	+1.6 $+5.7$ -0.4 $+14.2$	2,199,217 567,512 543,822 273,216	988, 283 2,350,503 622, 281 578, 798 331, 026	-10.3 +6.9 +9.7 +6.4 +21.3
518 69 306	35, 144 86,230 20, 774 22, 643	30, 740 87,648 21, 967 22, 556	+1.6 +5.7 -0.4	2,199,217 567,512 543,822	988, 283 2,350,503 622, 281 578, 798	-10.3 +6.9 +9.7 +6.4
518 69	35, 144 86, 280 20, 774	30, 740 87, 648 21, 967	$+1.6 \\ +5.7$	2,199,217 567,512	988, 283 2,350,503 622, 281	-10.3 +6.9 +9.7
518	35, 144 86,280	30, 740 87,648	+1.6	2,199,217	988, 283 2,350,503	-10.3 +6.9
	35, 144	30, 740			988, 283	-10.3
	9, (80)					
			+2.0	177, 779	183, 457	+3.2
						-5.9
177	37, 971	40, 688		1, 425, 903		+12.4
125	21, 361	21, 892	+2.5	713, 914	755, 405	+5.8
138	14, 608	14, 812	+1.4	298, 068	310, 036	+4.0
						-2.3
						-16.4 +5.4
						-10.2
294	119,463	106,362	-11.0	2,763,892	2,354,083	-14.8
248	38, 491	36, 616	-4.9	886, 165	868, 853	2.0
165	24, 688	24, 748	+0.2	602, 749	637, 254	+5.7
					1, 332, 905	+9.4
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30	21, 640	21, 827	+0.9	498, 355	546, 786	+9.7
410	134, 814	110, 552	-18.0	4, 018, 058	3, 306, 428	-17.7
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154	50, 742	42, 388	-16.5	1 319 138	1, 016, 653	-22.5
				619, 265		-10.3
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164	50, 716	46, 854	-7.6	1, 043, 758	1,000,539	-4.1
197	62, 815	60, 344	-3.9	1, 101, 631	1, 060, 715	-3.7
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998						-6.5 -13.4
						+12.0
257	13, 352	12, 686		331, 184	329, 940	-0.4
44	1, 718	1, 556	-9.4	27, 603	25, 813	-6.5
						+2.0
612	199 207	197 205	_15	42 087 406	89 905 151	+3.8
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nents	April,	April,		April,	April,	change
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Per Capita Earnings

PER CAPITA earnings increased in April as compared with March in 17 of the 52 industries here considered. The increases were all small except those in the fertilizer, shipbuilding, and steam-rail-road car building industries, which were 4.2 per cent, 3.4 per cent, and 2.3 per cent, respectively.

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The greatest decline in per capita earnings was 9.7 per cent in chewing and smoking tobacco, followed by 7 per cent in carpets, 5.8 per cent in men's clothing, 5.5 per cent in women's clothing, 4.6 per cent in boots and shoes, 4.3 per cent in cigars and cigarettes, and 3 per

cent in both woolen and worsted goods and hardware.

Comparing per capita earnings in April, 1924, and April, 1923, increases are shown in 1924 in all but 9 of the 46 industries for which data are available, the steel shipbuilding industry leading with a gain of 11.8 per cent, followed by stamped ware with 10.6 per cent, and sawmills with a gain of 9 per cent.

The greatest falling off in per capita earnings in the yearly comparison was 7.5 per cent in the cotton goods industry. Men's clothing declined 7.3 per cent and the boot and shoe industry 6.8 per cent.

COMPARISON OF PER CAPITA EARNINGS: APRIL, 1924, WITH MARCH, 1924, AND APRIL, 1923

Industry		April,	Industry	Per ce change 1924, cor with	April,
	March, 1924	April, 1923	A State of the sta	March, 1924	April, 1923
Fertilizers	+4.2	+1.2	Stamped and enameled ware	-0.6	+10.
Shipbuilding, steel	+3.4	+11.8	Ice cream		
Car building and repairing, steam-	100	100	Pottery	-0.7	+6.
railroad	+2.3	+3.2	Millinery and lace goods	-0.8	+6.
Structural ironwork Carriages and wagons	+1.8	122	Glass	-1.0 -1.0	+4
Brick tile and terra cotta	T1.8	+3.3	Rubber boots and shoes	-1.0	+2
Brick, tile, and terra cotta	+1.7	+6.8	Kupper boots and shoes	-1.0	
Printing, book and job.			Agricultural implements	-1.1	+5,
Automobile tires	+1.2	+3.3	tric-railroad	-1.1	
Shirts and collars	#1.1	-1.2	Slaughtering and meat packing.	-1.1	+5.
Baking	+1.0	+6.4	Petroleum refining	-1.1	+0.
Automobiles	+0.9	+3.2	Leather	-1.3	+2 +3.
Lumber, millwork	+0.9	+5.5	Paper and pulp	-1.4	+5.
Machine tools	+0.7	100	Stoves		+5.
Printing, newspaper	+0.7	+4.9	Cotton goods		T0.
Foundry and machine-shop prod-		Ta O	Iron and steel	-2.1	+8.
ucts	+0.5	+0.4	Steam fittings and steam and hot-	4. 1	1.0
Furniture	+0.5	+3.1	water heating apparatus	-2.1	
Electrical machinery, apparatus,	10.4	. 1 0. I	Flour	-2.1	+4
and supplies.	(1)	+6.4	Hardware	-2.5	+8.
Lumber, sawmills	8	+9.0	Woolen and worsted goods		+0. -1.
Silk goods	1 1	+3.7	Cigars and cigarettes	-4.3	-1.
Chemicals		+5.6	Boots and shoes		
Pianos and organs	-0.3	+1.0	Clothing, women's		-0.
Dyeing and finishing textiles	-0.3	-2.6	Clothing, women's		-0. -7.
Sugar refining, cane	-0.4		Carnets	-5.8 -7.0	+3.
Hosiery and knit goods		+6.0	Carpets Chewing and smoking tobacco	-9.7	+5.
Confectionery		+3, 2	Chewing and smoking tooleco	-0.1	7.04
	-0.0	T 0, 4	e voli for one month.	of the trees.	

¹ Decrease of less than one-tenth of 1 per cent.

Time and Capacity Operation

GENERAL plant operation in April dropped to an average of 92 per cent of full time as compared with 94 per cent in March and to an average of 80 per cent of full capacity as compared with 82 per cent in March. These April figures are shown by reports, in percentage terms, from 5,466 establishments. Three per cent of these stablishments were idle, 69 per cent of them were operating on a full-time schedule, and 28 per cent on a part-time schedule, while 44 per cent had a full normal number of employees, and 54 per cent were operating with a reduced force.

Stone, clay, and glass products alone of the 12 groups of industries gained in full-time operation, while the same group and tobacco products were the only ones gaining in full-capacity operation. non and steel and tobacco groups showed no change in percentage of full time operated, but all groups other than those noted show decreases both in percentage of full-time operation and in percentage of full-capacity operation. The leather group average percentages dropped 6 points and 8 points, respectively, while the decreases in all other instances were from 1 to 4 points.

Reports as to plant operation were received also from 1,190 firms other than the 5,466 noted above, but these were without percentage figures, the statements reading "full" or "part" time, and usually with no report as to capacity. By including these full and part time reports with those of the following table the percentage of establishments working on a full-time schedule is unchanged, being 69 in each instance.

FULL AND PART TIME AND FULL AND PART CAPACITY OPERATION IN MANU-FACTURING ESTABLISHMENTS IN APRIL, 1924

Industry		shments	establis	ent of hments ting—	A verage per cent of full- time	Per e establis opera	Average per ceut of full- capacity	
14 14 W 82	Total number	Per cent	Full time	Part time	operation in estab- lishments operating	Full capac-	Part capac-	
Food and kindred products	533	9	56	42	84	34	64	73
Slaughtering and meat packing			63	37	93	46	54	83
Confectionery		3	53	44	87	26	71	69
loe cream		3	78	19	96	22	75	66
Flour.		2	24	74	67	28	70	66
Baking			88	12	97	45	55	81
Sugar refining, cane	6	17	83		100	50	33	85
fextiles and their products		1	62	87	89	87	61	79
Cotton goods	250	3	55	42	84	45	52	80
Hosiery and knit goods		1	57	42	88	32	67	79
Silk goods	136	1	71	29	94	26	74	71
woolen and worsted goods	143		73	27	92	43	57	80
Carpets	16		63	37	87	37	63	70
Dyeing and finishing textiles	57		37	63	85	18	82	70
Clothing, men's		2	59	39	86	38	60	86
Shirts and collars			70	30	89	43	58	83
Clothing, women's	47	2	79	19	96	51	47	8
Millinery and lace goods	33	3	70	27	93	24	73	76
on and steel and their products	959	2	74	25	95	32	66	74
Iron and steel	108	12	50	38	89	38	50	81
Structural ironwork Foundry and machine-shop prod-	107		77	23	93	29	71	74
ucts	437	(1)	72	28	94	31	69	74
Hardware	41		83	17	96	44	56	76
Machine tools	130	1	89	10	99	20	79	50
water heating apparatus	89	1	89	10	99	52	47	88
Stoves	49		55	45	89	27	74	79

¹ Less than one-half of 1 per cent.

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FULL AND PART TIME AND FULL AND PART CAPACITY OPERATION IN MANUFACTURING ESTABLISHMENTS IN APRIL, 1924—Concluded.

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Industry		ishments orting	establis	cent of shments ating—	Average per cent of full- time	establis	Average per cent of full- capacity	
Little per central these	Total number	Per cent idle	Full	Part time	operation in estab- lishments operating	Full canac-	- capac-	in estab-
Lumber and its products	750		74		95	58	40	
Lumber, sawmills	327	3	71	25	94	69	28	85
Lumber, millwork	148	2	86	11	98	59	39	9.
Furniture	275	2	70		94	44	54	- 8
Leather and its products	218	1 2	61	37	87	26		8
Leather	60	1 1 1 1 2 1 2 1 1	81		96	20	78	6
Boots and shoes	144	3	51	46	83	28		6
Paper and printing	446		80		96	61	69	6
Paper and pulp.	119	5		24			45.0	8
Papas haves	0.0		64	36	93	64	31	9
Printing, book and job	140	1				42	58	8
Deinting nowgnores	101		84		97	48	52 A	8
Printing, newspapers	101		99	1	100	92	8	1
nemicals and airied products	141	1	77	21	91		47	
Chemicals	45		69	27	91	31	64	
Fertilizers	56	2	66	32	85	38	61	;
Petroleum refining	40		100		100	93	8	
Petroleum refining	511	10	68	22	92	48	42	
Cement	72	4	82	14	96	68	28	1
Brick, tile, and terra cotta	291	12	64	24	90	45	43	
Pottery	39		74	26	98	62	38	
Glass	109	14		18	02	38	49	
letal products other than iron and steel	28	1551	64	36	93	25	- 75	
Stamped and enameled ware	28		64	36	93	25	75	1
Tobacco products	124	9	54	87				1
Chewing and smoking tobacco	24	111111111111111111111111111111111111111			87	28	63	
Circum and aignrattes		11	58	42	89	21	79	
Cigars and cigarettes	100	11	53	36	87	30	59	
	568	1	75	24	95	59	40	1
Automobiles	143	2	55	43	91	28	70	1
Carriages and wagons	20	5	60	35	93	35	60	(
Car building and repairing, electric-	104	1	200		in	20		1
railroad	124		92	9	98	80	20	
Car building and repairing, steam-	AT SELECT	The state of	MALES	100	100		1	
railroad	281	1	79	21	96	68	32	1 8
Miscellaneous industries	218	8	71	26	98	33	64	1 3
Agricultural implements	55	2	67	31	92	24	74	1 3
Electrical machinery, apparatus,	12						1	
Electrical machinery, apparatus, and supplies	75		80	20	94	44	56	1 1
Pianos and organs	18		94	6	97	89	11	
Rubber boots and shoes			33	67	88	17	83	
Automobile tires	49	8	51	41	91	16	76	
Shipbuilding, steel	15		93	- AA	100	7	87	
100 E 100 A 200 E 100 A	10	1	90		100		01	4
Total	5,466	3	69	. 28	92	44	54	1

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Wage Changes

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WAGE-RATE increases were reported by 80 establishments in 27 W of 52 industries during the month ending April 15 and wage-rate decreases by 26 establishments in 8 industries. The increases averaged 7.4 per cent and applied to less than 6,000 employees, or one-third of the total employees in the 80 establishments reporting them. decreases averaged 9.2 per cent and affected about 4,000 employees, or 70 per cent of the employees in the 26 establishments concerned. As in the last 4 months these wage changes were purely individual

to the relatively small establishments making them and had no general significance whatever.

WAGE ADJUSTMENT OCCURRING BETWEEN MARCH 15 AND APRIL 15, 1924

	Establis	shments	Amount	of increase	En	ployees af	fected
Industry 1	Total	Num-			Per cent employe		
	number report- ing	ber report- ing in- creases	Range	Average	Total num- ber	In estab- lishments reporting increases	ments
Slaughtering and meat packing	84 85	1	Per cent.	Per cent. 6. 0 10. 0	189	10	(2) (2)
lee cream		2	10-14	12.6	23	100 50	1 23
Baking	315	2	2-10	4.5	26	31	(2)
Cotton goods		(3)					
Woolen and worsted goods	179	(4)					
Clothing, women's	158	1	5	5. 0	47	90	(2)
Millinery and lace goods	78	1	5	5. 0	97	16	
Iron and steel Structural ironwork	209 158	(8)	1-6	5. 4	0.0	10	
Foundry and machine-shop products	620	9	5-15	12.4	86 892	10 45	(2)
Machine tools	185	7	4-10	5.8	52	18	(2)
Steam fittings and steam and hot-	100		2 10	0.0	02	10	(-)
water heating apparatus	130	1	10	10.0	42	13	(2)
Stoves.	85	4	5-10	9.3	23	10	(3)
Lumber, sawmills	450	62	8-15	8.6	380	62	(3)
Lumber, millwork	254	10	3. 5-20	7.4	638	40	(0)
Furniture		5	2-10	6. 2	102	16	(2)
Leather	128 251	(7)	10	10.0	18	15	(2)
Printing, book and job Printing, newspapers	188	10	1-10, 7	6. 7	633	18	(-)
Fertilizers.	111	(8)	1-10. /	0. 1	000	10	
Cement	79	1	5	5.0	20	10	(2)
Brick, tile, and terra cotta	350	5	10-25	18.0	416	73	
Glass	146	1	10	10.0	75	26	(2)
Chewing and smoking tobacco	34	1	5	5. 0	23	100	(2)
Cigars and cigarettes	178	(9)		******			
Automobiles	227	3	5-7	5.1	190	14	(2)
Carriages and wagons	41	2	10-18, 8	10, 8	11	38	(0)
Car building and repairing, electric- railroad	188	3	6-10	8.3	73	32	(2)
Car building and repairing, steam-	100	0	0-20	0.0	10	32	()
railroad	321	2	1.8-4	2.8	1,665	98	
Agricultural implements	109	10 1	6	6.0	18	28	(8)
Electrical machinery, apparatus, and			17				
supplies	134	1	10	10.0	10	12	(3)
Pianos and organs	35	1	5	5.0	8	17	(3)

[1305]

Industries for which no wage changes were reported are omitted from this table.

Less than one-half of 1 per cent.

Three establishments decreased the rates of 800 of their 1,375 employees 7.1 per cent.

One establishment decreased the rates of 135 of its 163 employees 5 per cent.

One establishment decreased the rates of its 110 employees 10 per cent.

Also 7 establishments decreased the rates of 1,472 of their 1,690 employees 10.9 per cent.

Two establishments decreased the rates of 249 of their 336 employees 7.4 per cent.

One establishment decreased the rates of 138 of its 149 employees 33.3 per cent.

Ten establishments decreased the rates of 1,039 of their 1,772 employees 7.6 per cent.

Also 1 establishment decreased the rates of 10 of its 65 employees 8 per cent.

MONTHLY LABOR REVIEW

Index of Employment in Manufacturing Industries

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INDEX numbers for April, 1924, March, 1924, and April, 1923, for each of the 52 manufacturing industries studied by the Bureau of Labor Statistics appear in the following table, together with index numbers for each group of industries and a general index for the 12 groups combined.

INDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES-APRIL, 1924, AS COM. PARED WITH MARCH, 1924, AND APRIL, 1923

[Monthly average, 1923=100]

	iyozi	IFIL'I	F	ood and	kind	red p		S			Texti	Textiles and their products	
Month and year	Gen- eral index	Group Index	Slaugh- tering and meat pack- ing	Con- fec- tion- ery		ce am	Flou	r Bak	ing	Sugar refin- ing, cane		Cotton goods	
1923 April	102	95	93	91		78	9	6	97	120	104	100	
MarchApril	96 95	97 98	96 92	89 81		89 96	9		102	104 101		90 86	
The state of the s				Textil	es an	d the	eir pro	lucts					
Month and year Hos		Silk	Woole and worst good	ed Carr	pets	Dye an finis text	hing	Cloth- ing, men's		hirts and ollars	Cloth- ing, women's	Milli- nery and lace goods	
1923 A pril1924	. 103	74.5	0	1.7	100	100	106	100	1	104	107	10:	
March April	100	91		96	102 96		88	98 87		95 92	104	93 91	
(1)	13.	1	Iron and	l steel ar	nd the	eir pı	roduet			i dojel	Lumb its pr	per and oducts	
Month and year	Group	Iron and steel	Struc- tural iron- work	Foundry and machineshop products	Hawa		Ma- chine tools	fittin and stea and	igs d m d er ing	Stoves	Groun	Lum- ber, saw- mills	
1923 April	8 101	99		102		103			7.0	104	-	91	
March	95 94	106 106	92 91	87 86	qua i	98 98	91			93		95	

[1306]

therefore of its the employment in par could,
and the rates of 1.97 of their 1.000 exployees 10.0 per
act the rates of 110 of their 5.00 employees 1 a per cent.
the rates of 110 of their 5.00 employees 12 a per cent.
of the rates of 1.000 of their 1.77 employees 12 per cent.
and the rates of 10 of the 65 employees 5 per cent.

EMPLOYMENT AND UNEMPLOYMENT

NDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES—APRIL, 1924, AS COMPARED WITH MARCH, 1924, AND APRIL, 1923—Concluded

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	Lumb its proc		Le	ather and products					Pa	per a	and pr	inting	
Month and year	Lum- ber, mill- work	Furni- ture	Group index	Leather	ar	ots id oes	Gre		Pape and pulg		Paper boxes	Print ing, book and job	ing
April 1923 March April 1924	101 103 104	101 99 97	103 97 92	104 94 90		103 98 92	,	101		4	97 100 99	100	3 104
	Cher	nicals an	d allied	products			8	Stone	e, clay	, and	d glass	produc	ts
Month and year	Group	Chemicals	- Fertil		re-	Gre	oup lex	Ce	ment	ti ar ter	ick, le, nd rra tta	Pottery	Glass
1923 April 1924	104	9	9 1	121 103			101		95		102	97	103
March April	103 101			138 129 94			102		99		94 102	111 112	100 99
Month and year	uets than	prod- other iron steel	acco pro	duct	S		Vel	nicles 1	or l	and to	ranspor	tation	
	Group index	Stamp- ed and enam- eled ware	Group index	Chewing and smoking tobacco	ci	igars and G iga- ites		Group index mobile			Car- riages and wagons	Car build ing an repair ing, electr rail- road	build- d ing and repair- ing, ic steam rail-
1923 April	109	109	100	96		100		100	10	13	113		98
Mareh April	105 100	105 100	95 92	106 104		94 91		96 95	11 16	2	95 93		
				Mis	scella	neot	us in	dus	tries				
Month and year	Grou inde	P tu	gricul- ralim- ements	Electric machine apparat and suppli	ery, us,	ry, P		boots		bber s and b		tomo-	Ship- building, steel
								98		106		117	107

[1307] ·

The following table and chart show the general index of employment in manufacturing industries from June, 1914, to April, 1924, based on figures published by the Bureau of Labor Statistics:

GENERAL INDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES, JUNE, 1914, TO APRIL, 1924

[Monthly average, 1923=100]

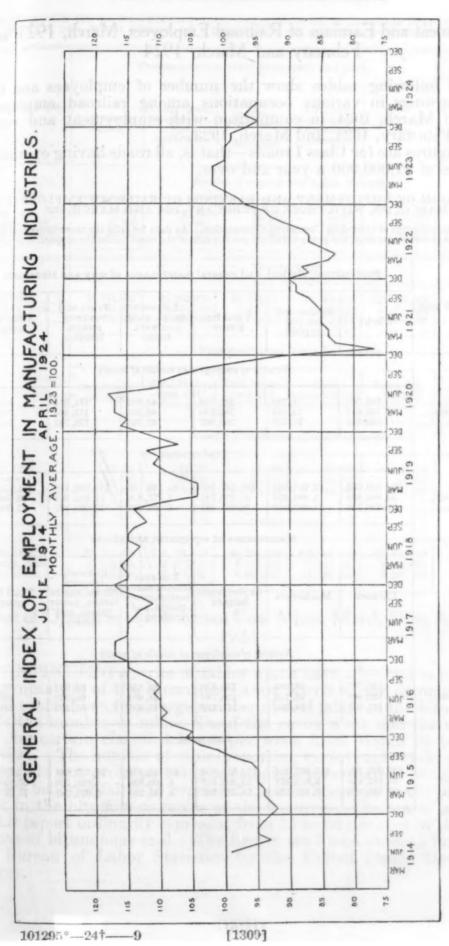
Month 1	914	1915	1916	1917	1918	1919	1920	1921	1922	1923	192
January		92	105	117	115	110	116	77	87	98	
February		93	108	117	115	104	115	83 84	88	100	
March		93 94	110	117	116	104	117	84	84	102	
April		94	109	115	115	104	117	84	83	102	
May		95	110	115	114	107	117	85	85	102	
une	99	96	110	115	113	109	118	85	87	102	
uly	96	95	111	114	115	111	110	85 85 85	87	100	
August	93	96	110	113	115	110	110	86	88	100	
September	95	99	111	111	114	112	107	86 87	91	100	
October	95	101	113	113	112	107	103	89	93	99	
November	94	104	115	116	113	110	97	89	94	99	
December	93	106	115	117	114	113	91	90	97	97	

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Employment and Earnings of Railroad Employees, March, 1923, and February and March, 1924

THE following tables show the number of employees and the earnings in various occupations among railroad employees in March, 1924, in comparison with employment and earnings in February, 1924, and March, 1923.
The figures are for Class I roads—that is, all roads having operating

revenues of \$1,000,000 a year and over.

COMPARISON OF EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES IN MARCH, 1924, WITH THOSE OF FEBRUARY, 1924, AND MARCH, 1923

[From monthly reports of Interstate Commerce Commission. As data for only the more important occupations are shown separately, the group totals are not the sum of the items under the respective groups]

The latest	Profess	ional, clerica	l, and general	maintenance	of way and st	ructures
Month and year	Clerks	Stenograph- ers and typists	Total for group	Laborers (extra gang and work train)	Track and roadway section laborers	Total for group
		Nun	iber of employee	es at middle of r	nonth	
March, 1923 February, 1924 March, 1924	169, 301 169, 017 169, 546	24, 799 25, 184 25, 229	281, 764 282, 740 283, 597	40, 632 40, 701 42, 391	181, 015 171, 444 178, 742	342, 353 335, 449 344, 500
	200		Total e	arnings		
March, 1923 February, 1924 March, 1924	\$21, 509, 023 20, 888, 809 21, 708, 170	\$2, 955, 092 2, 980, 976 3, 060, 566	\$37, 547, 167 37, 102, 740 38, 235, 483	\$3, 156, 105 2, 777, 826 3, 169, 638	\$13, 390, 138 11, 805, 508 13, 091, 187	\$31, 871, 103 29, 794, 395 32, 009, 535
		Main	tenance of eq	uipment and	stores	
	Carmen	Machinists	Skilled trade helpers	Laborers (shops, engine houses, power plants, and stores)		Total for group
		Num	ber of employee	s at middle of m	nonth	
March, 1923 February, 1924 March, 1924	134, 797 120, 969 121, 368	68, 688 65, 123 65, 150	138, 558 120, 780 121, 232	52, 538 48, 904 48, 495	64, 382 60, 933 61, 180	591, 754 548, 700 549, 671
	Int -		Total ea	rnings		
March, 1923 February, 1924 March, 1924	\$20, 006, 796 16, 182, 455 17, 533, 260	\$11, 967, 234 9, 672, 871 10, 402, 339	\$15, 812, 030 12, 308, 617 13, 297, 198	\$5, 162, 403 4, 509, 836 4, 742, 296	\$5, 377, 384 4, 660, 250 5, 076, 243	\$79, 729, 900 66, 789, 248 71, 531, 212

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COMPARISON OF EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES IN MARCH, 1924, WITH THOSE OF FEBRUARY, 1924, AND MARCH, 1923—Concluded

		The state of the s	through the same of the same of			
	Т	ransportation	n other than	train and yard		Transpor-
Month and year	Station agents	Telegraphers, telephoners, and towermen	Truckers (stations, warehouses, and platforms)	Crossing and bridge flagmen and gatemen	Total for group	tation (yard mas- ters, switch tenders, and hostlers)
	alge an	Num	her of employee	es at middle of m	onth	
March, 1923 February, 1924 March, 1924	31, 543 31, 436 31, 390	27, 432 26, 964 27, 217	43, 095 38, 992 39, 862	22, 605 22, 870 22, 851	213, 709 208, 379 209, 477	26, 354 25, 728 25, 695
			Total ed	irnings		
March, 1923 February, 1924 March, 1924	\$4, 767, 057 4, 554, 836 4, 779, 893	\$4, 002, 374 3, 722, 196 4, 006, 530	\$4, 156, 913 3, 461, 148 3, 772, 016	\$1, 634, 866 1, 696, 042 1, 712, 011	\$25, 662, 883 24, 049, 636 25, 349, 392	\$4, 711, 108 4, 410, 860 4, 605, 695
		Tr	ansportation,	train and eng	ine	
tra la obsert	Road con- ductors	Road brake- men and flagmen	Yard brake- men and yard helpers	Road engineers and motormen	Road fire- men and helpers	Total for group
		Num	ber of employee	es at middle of m	onth	1112 2231
March, 1923 February, 1924 March, 1924	38, 296 37, 602 37, 081	80, 264 77, 596 76, 617	55, 490 55, 064 54, 234	47, 556 45, 760 45, 002	49, 599 47, 879 47, 086	344, 329 336, 033 331, 043
mid rich			Total ea	rnings		
March, 1923 February, 1924 March, 1924	\$9, 287, 692 8, 262, 286 8, 350, 766	\$14, 151, 856 12, 375, 054 12, 465, 551	\$9, 516, 228 8, 749, 406 8, 963, 135	\$12, 797, 513 11, 235, 100 11, 341, 323	\$9, 452, 941 8, 302, 987 8, 397, 567	\$69, 0(0, 056 61, 712, 680 62, 613, 803

Extent of Operation of Bituminous Coal Mines, March 29 to April 26, 1924

CONTINUING a series of tables which have appeared in previous numbers of the Monthly Labor Review, the accompanying table shows for a large number of coal mines in the bituminous fields the number of mines closed the entire week and the number working certain classified hours per week from March 29 to April 26, 1924. The number of mines reporting varied each week, and the figures are not given as being a complete presentation of all mines but are believed fairly to represent the conditions as to regularity of work in the bituminous mines of the country. The mines included in this report ordinarily represent from 55 to 60 per cent of the total output of bituminous coal. The figures are based on data furnished the Bureau of Labor Statistics by the United States Geological Survey.

[1311]

WORKING TIME IN THE BITUMINOUS COAL MINES IN THE UNITED STATES, BY WEEKS, MARCH 29, 1924, TO APRIL 26, 1924

[The mines included ordinarily represent from 55 to 60 per cent of the total output. Prepared by the Bureau of Labor Statistics from data furnished by the United States Geological Survey]

	100 A								Mine	S							,
week mines ent	Closed entire week		less than		8 a less	Working 8 and less than 16 hours		Working 16 and less than 24 hours		Working 24 and less than 32 hours		Working 32 and less than 40 hours		Working 40 and less than 48 hours		king time hours nore	
	No.	Per	No.	Per	No.	Per		Per	No.	Per		Per	No.	Per	No.	Per	
1924 Mar. 29. Apr. 5. Apr. 12. Apr. 19. Apr. 26.	2, 387 2, 380 2, 194 2, 253 2, 310	1, 058 1, 013 1, 052	46. 2	41 77 50 63 44	1. 7 3. 2 2. 3 2. 8 1. 9	218 282 208 194 217	9. 1 11. 8 9. 5 8. 6 9. 4	333 301 286 297 274	14. 0 12. 6 13. 0 13. 2 11. 9	281 260 260 251 247	11. 8 10. 9 11. 9 11. 1 10. 7	216 202 142 179 173	9. 0 8. 5 6. 5 7. 9 7. 5	164 119 124 108 124	6. 9 5. 0 5. 7 4. 8 5. 4	209 81 111 109 95	8.8 3.4 5.1 4.8 4.1

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Recent Employment Statistics

Illinois

IN THE April, 1924, issue of the Labor Bulletin of the Illinois Department of Labor the following comparison is made of volume of employment in specified industries in the State for March, 1923, and February and March, 1924:

PER CENT OF CHANGE IN NUMBER ON PAY ROLLS IN VARIOUS INDUSTRIES IN ILLINOIS FROM MARCH, 1923, AND FEBRUARY, 1924, TO MARCH, 1924

	Number	Per cent	of change
Industry	of employees in March, 1924	February, 1924, to March, 1924	to March,
Stone, clay, and glass products: Miscellaneous stone and mineral products. Lime, cement, and plaster. Brick, tile, and pottery	1, 721 357 4, 962 4, 799	-4.4 -4.5 +1.8	0.0 -3.1 +1.5 -3.8
Total	11, 839	+1.1	-,6
Metals, machinery, and conveyances: Iron and steel Sheet-metal work and hardware Tools and cutlery Cooking, heating, ventilating apparatus Brass, copper, zinc, babbitt metal Cars and locomotives. Automobiles and accessories Machinery Electrical apparatus Agricultural implements Instruments and appliances Watches, watch cases, clocks, jewelry.	1, 689 5, 478 2, 566 12, 104 8, 464 18, 103 48, 504 7, 955 2, 432 7, 308	+4.2 +.9 -3.4 +2.1 +.6 +.5 -5.2 3 +1.2 +1.2 +2.4	+3.2 -1.7 -18.3 +3.1 +3.4 -32.0 -18.0 +6.6 +29.5 -8.4 -1.8 +8.5
Total	163, 138	+1.0	+2.9
Wood products: Saw mill and planing mill products. Furniture and cabinet work. Pianos, organs, and other musical instruments. Miscellaneous wood products. Household furnishings	2, 447 7, 396 3, 549 3, 041		+1.8 +.1 +.6 -22.4 -23.5
Total	17, 028	+.1	-4.5

[1312]

PER CENT OF CHANGE IN NUMBER ON PAY ROLLS IN VARIOUS INDUSTRIES IN ILLINOIS FROM MARCH, 1923, AND FEBRUARY, 1924, TO MARCH, 1924—Concluded.

shirms of numpley ment, or efficiency line	Number	Per cent	of change
Industry	of em- ployees in March, 1924	February, 1924, to March, 1924	March, 1923, to March, 1924
Furs and leather goods:	Th (2/1)		
Leather		+1.8 +7.8	-15.1
Furs and fur goods	9, 996	+7.8 -1.5	-15.3 -7.7
Miscellaneous leather goods		+1.8	+24.4
Total	14, 107	6	-4.7
Chemicals, oils, paints, etc.:			
Drugs and chemicals	2, 368	+1.3	+8.0
Paints, dyes, and colors Mineral and vegetable oil	2, 543 3, 916	+1.4	-4.5 -6.9
Miscellaneous chemical products	4, 241	+3.0	+9.7
Total	13, 068	+2.7	+.6
Printing and paper goods:			
Paper boxes, bags, and tubes	3, 992	+2.7	+9.1
Miscellaneous paper goods	1, 569 9, 737	-, 1 -3, 4	+3.1 +6.0
Job printing Newspapers and periodicals	3, 554	+3.7	+4.8
Total	18, 852	5	+5.2
Textiles: Cotton goods Knit goods, cotton and woolen hosiery	1, 240	-1.2	+26.3
Knit goods, cotton and woolen hosiery Thread and twine	3, 197 765	+9.9 +3.0	+8.6 -12.4
Total	5, 202	+6.0	+4.4
Men's clothing	12, 907	-5.4	-15.0
Men's shirts and furnishings	975	-1.4	+1.2
Overalls and work clothing	885 76	+20	-9.2
Men's hats and caps	1, 484	+5.6 -7.3	-45, 0 -6, 9
Women's clothing Women's underwear and furnishings	620	+4.4	-15.1
Women's hats	1, 393 2, 288	+.8	+17.8
Laundering, cleaning, and dyeing		+.8 -3.7	2
Total	20, 628	-3. (-12, 0
Floor, feed, and other cereal products	1, 104	-10.2	-3.6
Flour, feed, and other cereal products Fruit and vegetable canning and preserving	452	-8.7	-8.1
Groceries, not elsewhere classified	5, 095 24, 573	+4.5 -6.2	+9.2 -2.8
Slaughtering and meat packing	3, 405	-0.2	+5.7
Bread and other bakery products	2,720	+1.9	+7.3
Confectionery and ice cream	2, 985 1, 486	+3. 0 +3. 0	+5.4 -2.2
Beverages Cigars and other tobacco products	1, 285	-11.5	-7.8
Manufactured ice	245	+10.9	+20.4
Total	43, 350	-3.4	7
Total, all manufacturing industries	307, 212	0	-3.5
Trade—wholesale and retail:	007, 212		0.0
Department stores	3, 291	+2.6	(1)
Wholesale dry goods	56	. 0	(1)
Wholesale groceries Mail order houses	772 17, 717	+.4	+2.2 -5.4
Total	21, 836	1	(1)
Public utilities:	21, 000	. 1	
Water, light, and power	13, 969	7	+7.7
Telephone	25, 728	+1.2	+9.5
Railway car repair shops	26, 776 12, 186	+1.8 -4.3	+9.0 -12.1
Total	78, 659	+. 2	+7.3
		-2.8	-3.9
	19, 276	-4.0	-0, 9
Building and contracting: Building construction	5, 624	-1.7	(1)
Road construction	121	-3. 2	(1)
Miscellaneous contracting	802	-4.9	(1)
Total	6, 547	-2.1	-14.9
Total, all industries	433, 530	1	+2.1
Total, all industries	433, 530	1	7

¹ Not comparable reports.

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+1.8 +.1 +.6 -22.4 -23.5

-4.5

[1313]

Iowa 1

THE rise or fall of volume of employment in different industries in Iowa in March, 1924, as compared with the previous month is indicated in the statement given below:

CHANGES IN VOLUME OF EMPLOYMENT IN IOWA, FEBRUARY TO MARCH, 1924

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21 92 h 50 h	payro	loyees on oll March, 1924	thought he is	payro	oyees on 11 March, 1924
Industry group	Per cent of in- crease (+) or decrease (-) as com- pared with Febru- ary, 1924		Industry group	Num- ber	Per cent of in- crease (+) or decrease (-) as com- pared with Febru- ary, 1924
Food and kindred products:			Leather products:		
Meat packing		+1.5	Shoes	359	+7.0
Cereals	1, 180	+5.3	Saddlery and harness	362	-4.5
Flour and mill products		-2.9	Fur goods, tanning, and gloves	120	-14.9
Bakery products	792	-1.4			-
Confectionery	529		Total	841	-1.6
Poultry, produce, butter, etc.	743	+14.8		-	-
Sugar, sirup, starch, glucose	651	+3.3	Paper products, printing and		
Other food products, coffee, etc_	585	+7.6	publishing:	000	
(Data)	11 014	107	Paper and its products	296	-9.1
Total	11, 214	+2.7	Printing and publishing	2, 567	+.5
Textiles:			Total	0 000	
Clothing, men's	1, 218	+6.8	Total	2, 863	15
Millinery	192	-13.9	Patent medicines	594	100
Clothing, women's, and wool-	104	-10. 9	ratent medicines	094	+8.0
en goods	409	1	Stone and clay products:		
Gloves, hosiery, awnings, etc.	789	+2.5	Cement, plaster, gypsum	2, 307	+11.9
Buttons, pearl.	1, 160		Brick and tile (clay)	960	+32.2
Davon, bont	2, 100	dee	Marble, granite, crushed rock,	000	706.4
Total	3, 768	+1.6	and stone	96	-20.0
		12.0		100	20.0
Iron and steel work:			Total	3, 363	+15.7
Foundry and machine shops					1 400.0
(general classification)	4, 290	+1.0	Tobacco, cigars	446	-27
Brass and bronze products.	· Falls			-	
plumbers' supplies	230	-1.8	Railway car shops	6, 617	1 +.2
Automobiles, tractors, etc	2, 244	7		-,	
Furnaces	432	+5.8	Various industries:		
Pumps	362	+1.4	Automobile tires	269	+22.8
Agricultural implements	1,082	-2.0	Brooms and brushes	194	+9.6
Washing machines	1, 109	+4.7	Laundries	289	+1.4
All the last			Mercantile	3, 961	+1.3
Total	9, 809	+.9	Public service	446	-6.7
to be described as the second of the second			Seeds	111	-32.0
Lumber products:			Wholesale houses	1,385	+27
Millwork, interiors, etc		+1.4	Other industries	1,060	+.1
Furniture, desks, etc		-23			-
Refrigerators	449		Total	7,715	+1.1
Coffins, undertakers' goods	172		and a distance to the second		
Carriages, wagons, truck	1.		Grand total	52, 466	+2
bodies	216	+4.8			
Total			Take a second		
	5, 236	+.7	the state of the s		

¹ Iowa. Bureau of Labor Statistics. Iowa Employment Survey, March, 1924, p. 2.

Maryland

THE following figures furnished by the commissioner of labor and statistics of Maryland show the percentage differences between the number of employees and between the amounts of pay rolls, in March and April, 1924, in various industries in that State. The pay-roll period is one week except in the case of rubber-tire manufacture, in which the pay-roll period is half a month.

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS IN MARYLAND IN MARCH AND APRIL, 1924

Industry	Number on pay roll one week in April, 1924	Per cent of increase (+) or decrease (-), A pril compared with March, 1924	Amount of pay roll in April, 1924	Per cent of increase (+) or decrease (-), April compared with March, 1924
	000	10.	200 014	100
Bakery	893 169	+8.1	\$20, 314 4, 961	+3.6 +8.2
Boots and shoes.	1, 528	-1.1	30, 389	+2.0
Boxes, fancy and paper		2	7, 702	+2.1
Boxes, wooden	490	+4.7	8, 601	+1.1
Brass and bronze	2, 433	3	57, 504	+1.0
Brick, tile, etc.	976	+6.9	24, 318	+13.1
Brushes	1, 117	+.4	21, 691	-1.8
Canning and preserving	160	-41.0	2, 981	-37.2
Car building and repairing	4, 645	+1.7	156, 295	1
Chemicals	1, 555	-1.8	42, 497	+3.4
Cotton goods	2, 248	-4.1	37, 836	6
Clothing, men's outer garments	4,010	+7.1	86, 836	+31.0
Clothing, women's outer garments	1, 358	-2.6	18, 022	-5.6
Confectionery	764	-16.0	11, 374	-10.2
Fertilizer	1,429	+16.3	32, 053	+24.0
Food preparations	106 1,550	-3. 7 +5. 2	2, 737 39, 035	+1.2 +7.1
Foundry	3, 350	+1.0	42, 387	-1.5
Furnishing goods, men's	831	-5. 2	20, 248	-4.9
Glass	1, 374	-2.4	30, 212	-6.3
Hats, straw	1, 354	7	24, 758	-0.3
lee cream	346	+.2	10, 322	+2.1
Leather goods	627	6	12, 182	-2.0
Lithographing		+2.1	14, 002	-1-4.8
lumber and planing	1, 267	-2.0	22, 916	+3.6
Mattresses and spring bods	149	-5.1	3, 424	-19.8
Patent medicines	791	- 9	12, 512	+.5
Pianos.	902	-1.4	24, 935	17
Plumbers' supplies	1,460	+2.7	41, 182	+10.3
Printing	1, 359	6	46, 814	+2.7
Rubber-tire manufacture 1	2,668	+1.0	148, 396	+3.8
Ship building	758	+27.1	21,740	+37.5
Shirts, etc	1,564	-5.8	21, 657	-2.5
Silk goods		+4.0	7, 169	-1.3
Slaughtering and meat packing		-1.6	37, 587	9
Stamped and enameled ware	1, 123	-2.7	22, 216	-5.3
Stoves	456	+6.2	11, 031	4-8.7
Tinware	3, 213	1	63, 190	-2.0
Tobacco	1, 488	-2.6	23, 733	-1.1
Umbrellas	331	-4.9	5, 840	7
Miscellaneous	3, 109	+1.9	73, 539	+4.6

¹ Pay roll for one-half month.

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Per cent
of increase
(+) or
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(-) as
compared
with
February, 1924

-14.9

+15.7 -2.7

+22.8 +9.6 +1.4 +1.3 -6.7 -32.0

+21

Massachusetts

THE following two tables showing recent changes in volume of employment in Massachusetts are reproduced from press releases issued by the Department of Labor and Industries of that

m Wi

INDEX NUMBERS OF EMPLOYMENT IN CERTAIN MASSACHUSETTS INDUSTRIES IN FEBRUARY AND MARCH, 1923 AND 1924

[December, 1922=100]

Industry group	Mar	eh	February		
Name of the state	1924	1923	1924	1923	
Cotton goods Boots and shoes ¹ Woolen and worsted goods Foundry and machine-shop products ² Rubber products ³ Dyeing and finishing textiles Electrical machinery, apparatus, and supplies Printing and publishing ⁴ Paper and wood pulp	80. 7 81. 5 91. 9 97. 3 77. 9 85. 9 92. 8 94. 4 97. 1	99. 3 104. 9 100. 2 107. 2 98. 5 95. 1 116. 3 98. 3 107. 4	82, 3 20, 9 94, 0 99, 2 81, 9 84, 5 93, 1 93, 0 94, 7	58.8 107.4 99.5 104.7 96.5 109.4 109.5	
All industries combined	88. 4	101. 1	88, 8	100.	

Includes cut stock and findings.
 Includes foundry and machine-shop products, machine tools, and textile machinery and parts.
 Includes rubber footwear, rubber goods, and rubber tires and tubes.
 Includes both book and job, and newspaper.

NUMBER OF EMPLOYEES OF 866 MANUFACTURING ESTABLISHMENTS IN MASSA-CHUSETTS, FEBRUARY AND MARCH, 1924

Industry	Num- ber of estab-	on pay 1011			Num- ber of	Number of employees on pay roll	
industry	lish- ments	Febru- ary, 1924	March, 1924	Industry	estab- lish- ments	Febru- ary, 1924	March 1924
Automobiles, including bodies and parts	12	1, 887	1, 878	Jewelry	31	3, 064	
Boot and shoe cut stock and findings	- 51	0.000	0.001	and hnished	25	4, 940	4,82
Boots and shoes		2,002	2,001	Machine tools	24 10	1,664	1,64
Boxes:	10	23, 950	24, 146	Musical instruments	10	1,028	9
Boxes:	021	0.000	0 200	Paper and wood pulp	22	6, 333	6,
Paper Wooden packing	21	2,357	2, 338	Printing and publishing:		76	
Wooden packing	90	873	877	Paper and wood pulp Printing and publishing: Book and job Newspaper	36	2,748	2,
Bakery products	36	3, 281	3, 329	Newspaper	19	2, 188	2
Cars and general shop con-		1 22 1		Rubber goods	7	2, 732	2.
struction and repairs,				Rubber footwear	3	7,873	7,:
steam railroads	4	3, 178	3, 440	Rubber tires and tubes	. 3	1, 146	1,
Clothing: Men's		A STATE OF	7.5	Silk goods	12	2, 515	2,
Men's	28	3,010	2,961	Slaughtering and meat	-	-	
Women's	25	1, 177	1, 260	packing	4	1,602	1.
onfectionery	14	3, 361	3, 323	packing	7	942	1,
opper, tin, sheet iron, etc.	13	784	782	Steam fittings and steam	11 110	110	1 "
otton goods	49	42,772	41, 955	and hot-water heating			
utlery and tools	24	4,765	4,876	apparatus	5	1,510	1.
yeing and finishing, tex-		-	-,	Textile machinery and		4,010	-,
tiles	6	6, 084	6, 183	parts	13	5, 941	5,
lectrical machinery, ap-		0,000	0,200	Tobacco	- 7		1 0,
paratus, and supplies	12	9, 540	9, 516	Woolen and worsted goods.		15, 349	15.
oundry and machine-		0,010	0,010	All other industries	109	32, 572	32,
shop products	70	9, 620	9, 530	All Other industries	100	04,012	Day
urniture	27	2, 566	2, 581	(Potol	900	001 890	000
Josiery and knit goods		5, 194	5, 207	Total	800	221, 530	andly

New York

THE New York State Department of Labor reports the following fluctuations in volume of employment and pay rolls in certain manufacturing industries in New York State, March, 1924, compared with February, 1924, and March, 1923:

CHANGES IN NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS IN SELECTED MANUFACTURING INDUSTRIES IN THE STATE OF NEW YORK, MARCH, 1923, AND FEBRUARY, 1924, TO MARCH, 1924

1021, tim Harrow of Lobor State		Per cent	of change	
Industry	Feb., 1924-	Mar., 1924	Mar., 1923-	Mar., 1924
and wall agriculture the state of the	Employ- ment	Pay roll	Employ- ment	Pay roll
Cement. Brick. Pottery tlass. Pig iron and rolling mill products Structural and architectural ironwork Hardware. Stamped ware. Cutlery and tools Steam and hot-water heating apparatus Stoves Agricultural implements Electrical machinery, apparatus, etc Foundry and machine shops Automobiles and parts. Car, locomotive, and equipment factories Railway repair shops. Lumber, millwork Lumber, sawmills Furniture and cabinet work Furniture Pianos, organs, and other musical instruments Leather Boots and shoes Drugs and chemicals Petroleum refining. Paper boxes and tubes Printing, newspaper Printing, newspaper Printing, book and job Silk and silk goods Carpets and rugs. Woolens and worsteds. Cotton goods. Cotton and woolen hosiery and knit goods Dyeing and finishing textiles Men's clothing. Shirts and collars. Women's clothing. Women's headwear Flour Sugar refining Bread and other bakery products Bread and other bakery products Confectionery and ice cream Cigars and other tobacco products.	+23.9 +2.8.4 +2.8.3 -1.4.6 +5.0 +5.5.0 +1.8.4 +1.2.5 +1.4.5 +1.6.5 +1.4.4 +1.6.5 +1.4.4 +1.6.3 +1.3.4 +1.3.4 +1.3.7 +1.3.	+8.7 +10.8 -4.9 +4.61 -1.4 +2.17 +2.17 +2.8 +2.7 +2.8 +2.7 +2.8 +7.7 +6.9 +1.12 +1.11 +2.7 +1.12 +1.11 +2.7 +1.12 +1.11 +2.7 +1.12 +1.13 +1.14 +1.15 +1.16 +	+5.9 +45.0 +12.7 -9.0 +11.8 -13.6 -2.2 -12.7 -3.8 -15.4 +6.0 -40.3 -40.4 +6.3 -40.4 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6	+16. 2 +52. 3 -5. 2 +10. 7 +15. 4 -2. 8 +4. 7 -2. 8 +4. 7 -4. 2 +16. 1 -4. 2 +16. 1 -4. 1 -7. 7 -11. 7 -7. 1 -7. 1 -7. 1 -7. 1 -7. 2 +1. 2 +1. 2 +1. 2 +1. 3 -1. 2 -1. 2 -1. 3 -1. 2 -1. 3 -1. 6 -1. 2 -1. 2 -1. 3 -1. 3 -1. 3 -1. 4 -1. 3 -1. 4 -1. 3 -1. 4 -1. 4 -1. 5 -1. 6 -1. 6 -1. 6 -1. 7 -1. 7 -1. 7 -1. 7 -1. 8 -1. 8

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104.7 96.6 96.5 109.4 99.0 105.3

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March, 1924 2, 591 4, 823 1, 642 990 6, 493 2, 783

2, 283 2, 226 2, 752 7, 279 1, 149 2, 574 1, 550 1, 004

1, 678 5, 719 891 15, 015 32, 698

220, 530

HOUSING

Building Permits in Principal Cities of the United States in 1923

THIS article is a summary of the fourth annual report concerning building permits issued in the principal cities of the United States.

Immediatly after January 1, 1924, the Bureau of Labor Statistics mailed a questionnaire to the building inspectors of each of the 287 cities having a population of 25,000 or over. A large majority of these cities filled out and returned the questionnaires. To a number, however, it was necessary to send agents of the bureau who compiled the data either from records of permits issued or from the original applications for permits. The number of cities to which it was necessary to send agents was much smaller this year than in any of the preceding years. Reports were finally obtained from 269 cities.

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No report was obtained from 18 cities having a population of 25,000 or over. The most of these cities have either no building code at all or one which does not require that a record of the number and cost of the different kinds of buildings be kept, as specified on the bureau's schedule. A very few smaller cities are not reported because they did not respond and it was impracticable to send an agent for the data. Reports were received for the first time from Elmira and Kingston, N. Y., new building codes having recently been adopted in these cities.

This article is a summarization of the most important facts collected. A complete report showing the data in detail will be pub-

lished later in bulletin form.

Table 1 shows the total number and estimated cost of each of the different kinds of new buildings for which permits were issued in the 269 cities from which schedules were received for the year 1923, the per cent that each kind forms of the total number, the per cent that the cost of each kind forms of the total cost, and the average cost per building.

¹ Reports covering half-year periods were issued for cities having a population of 100,000 or over in the Monthly Labor Review for October, 1922, and October, 1923

TABLE 1 .- BUILDING PERMITS ISSUED IN 269 CITIES IN 1923, BY KIND OF BUILDING

the long bloker will be award agen-	Buile	dings for	which permits	were issu	ied		
Kind of building			Estimated cost				
and the state of t	Number	Per cent of total	Amount	Per cent of total	Average per building		
Residential buildings			medilina				
One-family dwellings	211, 235	38. 1	\$881, 569, 529	28.4	\$4, 173		
Two-family dwellings	45, 067	8.1	362, 652, 290	11.7	8, 047		
One-family and two-family dwellings with stores	10, 007	0.1	302, 002, 200	11. 6	0, 024		
combined.	4, 260	.8	42, 400, 120	1.4	9, 953		
Multi-family apartments	12, 925	2.3	551, 346, 257	17.8	42, 657		
Multi-family apartments with stores combined	1, 271	.2	51, 204, 646	1.7	40, 287		
Hotels	237	(1)	106, 159, 417	3. 4	447, 928		
Lodging houses	46	(1)	686, 280	(1)	14, 919		
Allother	123	(1)	21, 528, 950	.7	175, 032		
Total	275, 164	49, 6	2, 017, 547, 489	65. 1	7, 332		
Nonresidential buildings							
Amusement buildings	835	.2	53, 913, 737	1.7	64, 567		
Churches	1,012	.2	45, 770, 128	1.5	45, 227		
Factories and workshops	5, 132	. 0	161, 500, 065	5. 2	31, 459		
Public garages	4, 612	.8	52, 342, 838	1.7	11, 349		
Private garages	221, 825	40.0	110, 563, 189	3.6	493		
Service stations	3, 043	.5	9, 772, 783	.3	3, 212		
Institutions	246	(1)	37, 624, 370	1.2	152, 944		
Office buildings	1, 494	. 3	173, 571, 658	5. 6	116, 179		
Public buildings	162	(1)	21, 232, 556	.7	131,065		
Public works and utilities	473	.1	49, 899, 693	1.6	105, 496		
Schools and libraries	972	.2	155, 742, 271	5.0	160, 223		
Sheds	23, 142	4.2	8, 451, 577	.3	365		
Stables and barns	1,094	. 2	1, 316, 652	(1)	1, 204		
Stores and warehouses.	14, 551	2.6	192, 912, 895	6.2	13, 258		
All other	1, 127	. 2	7, 533, 054	.2	6, 684		
Total	279, 720	50. 4	1, 082, 147, 416	34. 9	3, 869		
Grand total	554, 884	100.0	3, 099, 694, 905	100.0	5, 586		

1Less than one-tenth of 1 per cent.

The above table shows that 49.6 per cent of all the new buildings erected in cities of 25,000 or over were residential buildings, and that 65.1 per cent of the money spent in the erection of new buildings was for this class of structure.

This is the second year since the bureau has been collecting these data that more permits have been issued for nonresidential buildings than for residential buildings. This is largely due to the increase in the number of private garages erected. It will be seen that 221,825 permits were issued for private garages, this number being 40 per cent of all the new buildings projected, as compared with 211,235 one-family houses, or 38.1 per cent of the total. In 1920, 1921, and 1922 more permits were issued for one-family houses than for any other class of buildings. While the number of permits issued for nonresidential buildings passed that of permits issued for residential buildings the estimated cost of the latter class was considerably in The table shows that \$2,017,547,489, excess of that of the former. or 65.1 per cent of the total estimated cost of all new construction, was spent for residential buildings as compared with \$1,082,147,416, or 34.9 per cent of the total cost for nonresidential buildings.

Thus, it will be seen that the primary object of builders the past year had been to relieve the housing shortage which undoubtedly still exists in many cities of the United States.

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Quite a large sum of money was spent in the erection of buildings paid for by cities, counties, or State governments, practically all of the funds for the erection of buildings shown in the table under the headings of institutions, public buildings, public works and utilities,

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and schools and libraries being raised from public sources.

The largest amount of money estimated to have been spent for any class of nonresidential buildings was for stores and warehouses, \$192,912,895 being the estimated costs of these mercantile buildings. The last column in the table shows the average cost per building of each of the different classes of buildings for which permits were issued. To the average reader the most interesting of these figures will be those for one-family houses and those for two-family houses. It will be noticed that the average cost of the former was \$4,173, and the latter \$8,047. This shows no very great difference in the cost per family.

The average amount of money spent for the erection per hotel was \$447,928—more than was required for any other class of structure. Schools and institutions were other groups where the average cost

was high, that of the former being \$160,229 and of the latter \$152,944. It must be borne in mind that the costs given in this and other tables in this article are estimated costs taken from the application for a permit to build. The estimates are made by the owner or builder when he applies for his permit and can not be regarded as absolutely accurate. Often a change in the plans after the permit has been issued necessitates a change in the amount of money spent in the erection of the building. Again, a man may give an estimate which he knows to be too low because he thinks by doing so he can keep the assessed value of his property down. Another reason for low estimates in some cities is that permits are charged for according to the cost of the building.

The total estimated cost of all classes of new buildings for which permits were issued in the 269 cities was \$3,099,694,905—the largest amount ever spent in any one year as far as any known records show.

As has been stated before, the number of cities from which reports were received differed in the different years. Table 2 shows the number and per cent of families provided for by each of the different kinds of dwellings in the 258 identical cities from which reports were received for each of the three years, 1921, 1922, and 1923.

TABLE 2.—NUMBER AND PER CENT OF FAMILIES TO BE HOUSED IN DWELLINGS FOR WHICH PERMITS WERE ISSUED IN 258 IDENTICAL CITIES IN 1921, 1922, AND 1923

Kind of dwelling	Number of buildings for which permits were issued			Families provided for					
	1921	1922	1923	Number			live.	Per cen	it
	1921	1	1920	1921	1922	1923	1921	1922	1923
One-family dwellings Two-family dwellings One-family and two-family dwell-	131, 148 16, 917	179, 522 36, 229	207, 971 44, 968	131, 148 33, 834	179, 522 72, 458	207, 971 89, 836	58. 3 15. 0	47. 6 19. 2	45. 8 19. 8
ings with stores combined	3, 444 4, 901	4, 984 9, 564	4, 204 12, 830	5, 262 52, 000	7, 808 110, 609	6, 598 139, 211	2. 3 23. 1	2. 1 29: 3	1.5 30.7
stores combined	570	1, 074	1, 258	2, 894	7, 107	10, 576	1.3	1.9	2.3
Total	156, 980	231, 373	271, 231	225, 138	377, 504	454, 192	100.0	100.0	100.0

The most important fact brought out by Table 2 is the large increase in the number of families provided for in 1923 as compared with either 1922 or 1921, there being 454,192 families provided with new housing accommodations in the 258 cities in 1923, as compared with 225,138 in 1921 and 377,504 in 1922.

An illustration of how the American home is changing is shown by the fact that 58.3 per cent of the families provided for were housed in one-family dwellings in 1921. In 1922 this percentage shrank to 47.6 per cent and in 1923 to 45.8 per cent. On the other hand the per cent of families provided for in apartment houses increased from 23.1 per cent in 1921 to 29.3 per cent in 1922 and to 30.7 per cent in 1923. In other words, for every three families which found new living quarters in one-family houses there were two families which went to live in apartments. The widespread effect of this change is more apparent when one considers that this report includes cities with a population of as little as 25,000. Many of the smaller cities, which had no apartment houses at all before the war, are now building this class of dwellings.

The percentage of two-family houses has also increased in each of

the last two years as compared with 1921.

There is a movement now, however, in most of the larger cities, which partly offsets this trend toward dwellings designed for more than one family—that is, the large exodus to the suburbs. The high cost of real estate in the cities, the more prevalent use of automobiles, and the better suburban schedules of railroads have all combined to cause many people to build at a considerable distance from their work, quite often outside the city limits. Undoubtedly the large majority of suburban homes are of the one-family type, but as most of them are outside the city limits they do not show in this report.

Table 3 shows the number and cost of each of the different kinds of buildings for the 258 cities from which reports were received in each of the three years, 1921, 1922, and 1923, and the percentage of increase or decrease in the number and in the cost in 1923 as com-

pared with 1921 and with 1922.

The above figures show that there was an increase of 60.2 per cent in the number of permits issued for all classes of new buildings in the 258 cities in 1923 over those issued in 1921 and an increase of 22.3 per cent over those issued in 1922. There was an increase of 95.3 per cent in the estimated cost of these buildings in 1923 as compared with 1921 and of 23.4 per cent as compared with 1922.

For residential buildings the number increased 72.8 per cent in 1923 as compared with 1921 and 17.2 per cent as compared with 1922, while the estimated amount expended increased 113.5 per cent during the former period and 24.1 per cent during the latter

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From 1921 to 1923 the number of nonresidential buildings increased 49.5 per cent and the increase in 1923 over 1922 was 27.7 per cent. The estimated cost of nonresidential buildings shows an increase of 68.4 per cent in comparing 1923 with 1921 and 22.2 per cent in comparing 1922 with 1923.

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or or composition of the lating latin	1 per	Building	Buildings for which	permits were issued	-uj pens	w -d w -d w -d w ent	Per cent c	cent of increase in 1923 as com	ease (+) or decrease compared with—	rease (-)
Kind of building	DO)	1921) 	1922	1133-	1923	1921	21	1922	22
192 192 192 22 22 22 22 22 4 102 102 102 102	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Residential buildings One-family dwellings Two-family dwellings One-family dwellings One-family and two-family dwellings with stores combined Multi-family dwellings Multi-family dwellings with stores combined Hotels Lodging houses	131, 148 16, 917 3, 444 4, 901 570 96 96 132	\$21, 506, 346 114, 682, 111 32, 913, 609 206, 674, 611 13, 497, 679 39, 476, 010 474, 809 7, 638, 505	179, 522 36, 229 4, 984 9, 564 1, 074 1, 151 151	\$760, 832, 067 240, 326, 016 48, 075, 505 432, 246, 428 33, 044, 229 74, 279, 241 1, 421, 500 24, 077, 869	207, 971 44, 968 4, 204 12, 830 1, 228 1, 228 44 123	\$871, 704, 763 361, 977, 990 42, 905, 497 548, 992, 657 50, 315, 146 103, 783, 617 678, 280 21, 528, 950	++++++++++++++++++++++++++++++++++++++	+67.2 +215.6 +26.7 +162.9 +42.9 +42.9 +182.9	++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++	14+ 20.0 41-4 20.2 41-4 20.0 10.0 10.0
Total	157, 284	937, 352, 739	231, 739	1, 612, 352, 921	271, 627	2, 000, 986, 900	+72.8	+113.5	+17.2	+24.1
Amusement buildings Churches Churches Factories and workshops Public garages Service stations Institutions Office buildings Public works and utilities Schools and libraries Schools and libraries Stables and barns Stables and warehouses	772 3,732 117,955 1,485 1,485 1,153 2,77 7,77 10,195 11,369 5,366	02, 505, 542 29, 134, 571 29, 134, 571 73, 482, 064 26, 668, 961 3, 725, 131 119, 994, 025 115, 994, 025 115, 894, 025 116, 487, 182 1100, 727, 649 12, 872, 101	1,081 1,081 1,081 1,082 1,082 1,493 208 208 208 208 208 1,493 1,364 1,568	82, 219, 970 42, 471, 970 108, 515, 145 31, 561, 346 72, 875, 690 6, 502, 159 34, 307, 734 163, 163, 243 145, 463, 964 7, 387, 964 1, 537, 650 1, 537, 851 1, 721, 841	819 976 2, 4, 565 2, 968 2, 968 1, 445 1, 161 1, 063 1, 125 1, 125	53, 726, 530 45, 113, 478 159, 748, 716 61, 762, 838 109, 463, 664 97, 499, 370 171, 925, 983 21, 182, 556 43, 321, 343 153, 669, 381 7, 970, 194 1, 294, 077 100, 930, 687 7, 480, 064	++++++++++++++++++++++++++++++++++++++	1+1+++++++++++++++++++++++++++++++++++	+ 1 + 4 + 4 + 1 + 1 + 2 + 2 + 2 + 1 + 2 + 2 + 2 + 2	+++++++++++++++++++++++++++++++++++++++
Total	184, 334	635, 775, 199	215, 768	876, 276, 707	275, 640	1, 070, 596, 718	+49.5	+08.4	+27.7	+22.2
Grand total	341, 568	1, 573, 127, 938*	447, 507	2, 458, 629, 628	547, 267	3, 071, 583, 618	+60.2	+95.3	+22.3	+23.4

[1322]

Table 4 following shows the number of families provided with dwellings and the ratio of such families to each 10,000 of population according to the 1920 census and according to estimated population for the specified year, in each city from which data were received for the three years 1921, 1922 and 1923.

It will be noted that the ratio of families provided for is based on both the population according to the 1920 census and on the estimated population for the specified year. The ratio is worked on the two different bases because it is thought that many people would prefer the 1920 figures as they are the latest exact population figures. The other population figures are estimates but they probably are more nearly right than the 1920 census figures. The estimates were made by the Census Bureau of the United States Department of Commerce. It will be noticed that for some cities no estimate of population was made.

The table shows complete reports from 258 cities in 1921. These cities had a population according to the 1920 census of 36,643,576, and homes were provided in new buildings for 225,138 families, this being at the rate of 61.4 per 10,000 of population. In 1921 information was received from 266 cities having a population of 37,054,776. These cities provided new family accommodations for 380,163 families, the ratio being 102.6 to each 10,000 inhabitants. By 1923 this ratio had risen to 123.7 to each 10,000 of population in the 269 cities reporting for that year, there being 459,471 families housed in that year in these cities, which had a population of 37,158,648 according to the 1920 census.

3, 071, 583, 618

202

547.

2, 458, 629, 628

447, 507

1, 573, 127, 938*

341,

If the estimated population as published by the Census Bureau is used it is found that the ratio of families to each 10,000 of population is only 59.7 in 1921, compared with 97.8 in 1922 and 115.3 in 1923.

Long Beach, Calif., continues to be the fastest growing city of over 25,000 in the United States as far as new homes are concerned. This city, having a population of 55,593 according to the 1920 census, has built in the last three years accommodations for over 18,000 families. In 1923 alone, 7,185 families were provided for in new buildings. This is at the remarkable ratio of 1,292.4 to each 10,000 of the city's population according to the 1920 census or 1,038.1 according to the estimated population for 1923.

Long Beach is the only city where homes were provided for at the rate of 1 for each 10 of the city's population, but its larger next door neighbor, Los Angeles, made almost as remarkable a record. This fast growing city provided for 43,842 families in 1923, or at the rate of 760.3 families to each 10,000 of population according to the 1920 census, and at the rate of 657.4 according to the population as estimated for 1923.

Miami, Fla., and Irvington, N. J., were other cities that stood out as great builders of homes, the former city providing accommodations for 2,338 families in 1923 and the latter 1,313. In Miami this meant that for each 1,000 people in the city, according to the 1920 census, 790.6 families were domiciled in new quarters, or 611.1 families provided for to each 10,000 in the city according to estimated population for 1923. In Irvington 515.3 families were provided for to each 10,000 of the city's inhabitants according to the 1920 census or 432.1 according to the population as estimated for the year 1923.

In New York City the ratio of families provided for to each 10,000 of population in 1923 according to the estimated population for that year was 178.3. In 1921 the ratio based on the estimated population was 89.3 or only a little over half that of 1923. These figures apply only to buildings erected within the city limits. Undoubtedly the increase would be even larger if records could be obtained for all the residential buildings erected in the metropolitan district.

Chicago, too, provided for a greater percentage of families than ever before. The ratio of families provided for to each 10,000 of the city's population was over 100 for the first time since the records have been compiled, being 124.1, based on the census of 1920, or 116.2

based on the estimated population for 1923.

A study of the table will show that the crest of residential building has been reached in some of the cities as a slight falling off is noted in a few cities, both large and small, in the number of families provided

for in 1923 as compared with 1922.

Earlier reports concerning building permits issued in the United States are published in Bulletin Nos. 295, 318, and 347 of the Bureau of Labor Statistics and the Monthly Labor Review for July, 1921; April, 1922; October, 1922; July, 1923; and October, 1923.

Table 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE

City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of specified year	Ratio of families provided for to each 10,000 of population as of specified year
Akron, Obio	1921	234	208, 435	11. 2	(1)	
	1922	385		18. 5	(1)	
Alameda, Calif	1923 1921 1922	719 152 196	28, 806	34. 5 52. 8 68. 0	(1) 29, 643 30, 201	51.3 64.5
Albany, N. Y	1923 1921 1922	307 302 582	113, 344	106. 6 26. 6 51. 3	30, 759 115, 071 116, 223	99.1 26.1 50.
	1923	815		71. 9	117, 375	69.
Allentown, Pa	1921 1922	102 229	73, 502	13. 9 31. 2	82, 507 84, 918	12.
re provided for at the	1923	375		51. 0	87, 329	42.
Altoona, Pa	1921	91	60, 331	15. 1	62, 528	14.
skable a record This	1922 1923	218 295		36. 1 48. 9	63, 523 64, 368	34. 45.
Amsterdam, N. Y	1921	70	33, 525	20. 9	33, 872	20.
SORE SING AN AN TO POSSE HE	1922	113		33. 7	34, 104	33.
Anderson, Ind	1923 1921	223	29, 767	66. 5	34, 336 30, 882	64.
AMUCISON, INC	1922	56	20, 101	18.8	31, 625	17.
	1923	83		27. 9	32, 368	25.
Asheville, N. C	1921 1922	374 365	28, 507	131. 2 128. 0	29, 314 29, 854	127. 122.
ind pools full soins is	1923	484		169, 8	30, 394	159
Atlanta, Ga	1921	1,614	200, 616	80. 5	207, 473	77
In Manni this mount	1922	3, 590		178. 9	218, 216	164 170
Atlantic City, N. J.	1923 1921	3, 792	50, 707	189. 0 72. 2	222, 963 51, 411	71
Account to the second s	1922	1,057		208. 5	51, 880	203
ers, or 611.1 families	1923	697		137. 5	52, 349	133
Auburn, N. Y	1921 1922	28 42	36, 192	7.7	36, 428 36, 585	7
ort and habituress around	1923	68		18.8	36, 742	18
Augusta, Ga	1921	342	52, 548	65. 1	53, 283	64
to shames orest out of	1922	362		68. 9	53, 774	67.
for the year 1923.	1923	227		43. 2	54, 264	4.

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¹ Not estimated.

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TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of speci- fied year	Ratio of families provided for to each 10,00 of popu- lation as of speci- fied year
urora, Ill	1921 1922	126 263	36, 397	34. 6 72. 3	37, 299 37, 950	33. 69.
akimore, Md	1923 1921 1922 1923	302 2, 176 4, 234 5, 152	733, 826	83. 0 29. 7 57. 7 70. 2	38, 551 750, 864 762, 222 773, 580	78, 29, 55, 66,
angor, Me	1921 1922	66 99 54	25, 978	25. 4 38. 1 20. 8	26, 160 26, 281 26, 402	25, 37, 20,
attle Creek, Mich	1923 1921 1922	127 186	36, 164	35. 1 51. 4 118. 3	37, 847 38, 970 40, 092	33. 47. 106.
ay City, Mich	1923 1921 1922	428 137 61 29	47, 554	28. 8 12. 8 6. 1	47, 923 48, 169 48, 415	28. 12. 6.
nyonne, N. J	1923 1921 1922	274 598	76, 754	35. 7 77. 9 114. 5	80, 030 82, 214 84, 398	34 72 104
akeley, Calif	1923 1921 1922	879 706 1, 113	56, 063	125. 9 198. 5 359. 4	59, 781 61, 388 62, 995	118 181 319
thlehem, Pa	1923 1921 1922	2, 015 82 94	50, 358	16. 3 18. 7 31. 6	56, 431 58, 029 59, 628	14 16 26
nghamton, N. Y	1923 1921 1922	159 327 544	66, 800	49. 0 81. 4 90. 4	69, 635 71, 525 73, 416	45 76 85
mingham, Ala	1923 1921 1922	1, 659 1, 458	178, 806	92. 8 81. 5	186, 133 191, 017	89 70 160
comington, Ill	1923 1921 1922	3, 138 27 64	28, 725	175. 5 9. 4 22. 3	195, 901 29, 147 29, 428	2 3
ston, Mass	1923 1921 1922	878 3, 434	748, 060	38, 6 11, 7 45, 9 47, 8	29, 709 757, 634 764, 017 770, 400	1 4
idgeport, Conn	1923 1921 1922	3, 577 404 250	143, 535	28. 1 17. 4 11. 1	(1) (1) (1)	
ockton, Mass	1923 1921 1922	160 84 187	66, 254	12. 7 28. 2 36. 8	67, 702 68, 667 69, 633	1: 2: 3:
rookline, Mass	1923 1921 1922	244 118 626	37, 748		39, 286 40, 311	
affalo, N. Y	1923 1921 1922	367 2, 405 3, 079	506, 775		519, 608 528, 163 536, 718	
itte, Mont	1923 1921 1922	4, 262 4 19 11	41, 611	1. 0 4. 6 2. 6	41, 953 42, 181	
mbridge, Mass	1923 1921 1922	43 237	109, 604	3. 9 21. 6 26. 3	110, 444 110, 944	2
anden, N. J	1923 1921 1922	288 145 433 459	116, 309	12. 5 37. 2 39. 4	119, 672 121, 915	3
nton, Ohio	1923 1921 1922	458 403 660 1 679	87, 091	46. 3 75. 8 192. 8	92, 236 95, 742	4
dar Rapids, Iowa	1923 1921 1922	1, 679 331 448	45, 566	72. 6 98. 3 108. 6	47, 536 48, 849	6
arleston, S. C	1923 1921 1922	495 204 287 77	67, 957	30. 0 42. 2 11. 3	69, 366 70, 305	2
harleston, W. Va	1923 1921 1922	712 424	39, 607	179. 8 107. 1	42, 175	16
harlotte, N. C	1923 1921 1922	505 322 695 795	46, 338	127. 8 69. 5 150. 0 171. 6	48, 242	14

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[1325]

TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

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City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of specified year	Ratio of families provided for to each 10,00 of population as of specified years.
Chattanooga, Tenn	1921 1922	226 303	57, 895	39. 0 52. 3	58,867 59,515	38
Chelsea, Mass	1923 1921 1922	259 59 76	43, 187	44. 7 13. 7 17. 6	60, 163 44, 841 45, 947	43 13 16
Chester, Pa	1923 1921 1922	91 47 122	58, 030	21. 1 8. 1 21. 0	47, 052 60, 886 62, 792	19 7 19
Chicago, Ill	1923 1921 1922 1923	148 12, 252 24, 227 33, 539	2, 701, 705	25. 5 45. 3 89. 7 124. 1	64, 697 2, 780, 655 2, 833, 288 2, 886, 121	22 44 85
Chicopee, Mass	1921 1922 1923	238 342 513	36, 214	65. 7 94. 4 141. 7	37, 884 38, 997 40, 111	116 62 87 127
Cicero, Ill	1921 1922 1923	453 828 1,003	44, 995	100. 7 184. 0 222. 9	49, 698 52, 833 55, 968	91 156 184
Cincinnati, Ohio	1921 1922 1923	1, 161 2, 609 1, 899	401, 247	28. 9 65. 0 47. 3	403, 418 404, 865 406, 312	28 64 46
Clarksburg, W. Va	1921 1922 1923	163 188 181	27, 869	58. 5 67. 5 64. 9	28, 559 29, 019 29, 480	57 64 61
Clifton, N. J.	1921 1922 1923	4, 084 5, 153 7, 125	796, 841	51. 3 64. 7 89. 4	831, 138 854, 565 888, 519	6 8
Colorado Springs, Colo	1921 1922 1923	540 665 901	26, 470	204. 0 251. 2 340. 4	28, 726 30, 230 31, 734	18 22 28
Columbia, S. C.	1921 1922 1923 1921	116 247 290 241	30, 105	38. 5 82. 0 96. 3 64. 2	(1) (1) (1) (1) 38, 452	6
Columbus, Ga	1922 1923 1921	318 254 88	31, 125	84. 7 67. 7 28. 3	39, 070 39, 688 31, 976	8 6 2
Columbus, Ohio	1922 1923 1921	205 223 1, 317	237, 031	65. 9 71. 6 55. 6	32, 543 33, 110 247, 828	6 6 5
Council Bluffs, Iowa	1922 1923 1921	2, 477 3, 209 423	36, 162	104. 5 135. 4 117. 0	255, 455 261, 082 37, 223	9 12 11
Covington, Ky	1922 1923 1921	509 509 198	57, 121	140. 8 140. 8 34. 7	37, 930 38, 637 57, 445	13 13 3
Cranston, R. I	1922 1923 1921	323 250 154	29, 407	56. 5 43. 8 52. 4	57, 661 57, 877 30, 688	5 4 5
Cumberland, Md	1922 1923 1921 1922	230 279 132 139	29, 837	78. 2 94. 9 44. 2 46. 6	31, 543 32, 398 30, 981 31, 671	7 8 4 4
Dallas, Tex	1923 1921 1922	158 2, 846 3, 604	158, 976	50. 3 179. 0 226. 7	32, 361 166, 543 171, 974	4 17 20
Danville, III	1923 1921 1922	3, 540 27 90	33, 776	222, 7 8, 0 26, 6	177, 274 34, 589 35, 197	19
Davenport, Iowa	1923 1921 1922	199 192 300	56, 727	58. 9 33. 8 52. 9	35, 805 58, 670 59, 966	5 3 5
Dayton, Ohio	1923 1921 1922	265 546 961	152, 559	46. 7 35. 8 63. 0	61, 262 158, 119 161, 824	3 5
Decatur, III	1923 1921 1922 1923	1, 090 335 469 538	43, 818	71. 4 76. 5 107. 0	165, 530 46, 519 47, 479 48, 439	7 9 11
Denver, Colo	1923 1921 1922 1923	538 1, 624 2, 726 3, 060	256, 491	122. 8 63. 3 106. 3 119. 3	48, 439 263, 152 267, 591 272, 031	10

¹ Not estimated.

TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

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Ratio of families provided for to each 10,000 of population as of specifled year

> 43.9 48.8 170.9 200.6 199.7 7.8 25.6 55.6 32.7 50.0 43.3 34.5 59.4 65.8 72.0

101.9 112.5

City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of specified year	Ratio of families provided for to each 10,000 of popu- lation as of speci- fied year
Des Moines, Iowa	1921 1922	758 1,624	126, 468	59. 9 128. 4	132, 663 136, 793	57. 118.
Detroit, Mich	1923 1921 1922	1, 596 6, 743 16, 813	993, 678	126. 2 67. 9 169. 2	140, 923 (1) (1)	113.
Dubuque, Iowa	1923 1921 1922	22, 764 77 132	39, 141	229. 1 19. 7 33. 7	(1) 39, 240 39, 306	19. 33.
Duluth, Minn	1923 1921 1922 1923	185 637 1,050 788	98, 917	47. 3 64. 4 106. 1 79. 7	39, 372 102, 076 104, 183	47. 62. 100.
East Chicago, Ind	1921 1922 1923	168 226 357	35, 967	46. 7 62. 8 99. 3	106, 289 38, 588 40, 336 42, 084	74. 43. 56. 84.
East Cleveland, Ohio	1921 1922 1923	472 855 807	27, 292	172. 9 313. 3 295. 7	30, 090 31, 955 33, 820	156. 267. 238.
Easton, Pa	1921 1922 1923	59 96 96	33, 813	17. 4 28. 4 28. 4	34, 630 35, 175 35, 720	17. 27. 26.
East Orange, N. J.	1921 1922 1923	376 537 647	50, 710	74. 1 105. 9 127. 6	53, 235 54, 918 56, 601	70. 97. 114.
East St. Louis, Ill	1921 1922 1923	260 368 584	66, 767	38. 9 55. 1 87. 5	68, 037 68, 883 69, 729	38. 53. 83.
Eligin, III	1921 1922 1923	67 138 190	27, 454	24. 4 50. 3 69. 2	27, 683 27, 835 27, 987	24. 49. 67.
Elizabeth, N. J	1921 1922 1923	514 766 849	95, 783	53, 7 80, 0 88, 6	99, 339 101, 643 103, 947	51. 75. 81.
Elmira, N. Y. ²	1923 1921 1922 1923	57 634 666 514	45, 393 77, 560	12. 6 81. 7 85. 9 66. 3	48, 354 83, 147 92, 014 96, 319	11. 76. 72.
Erie, Pa	1921 1922 1923	518 773 470	93, 372	55. 5 82. 8 50. 3	106, 485 109, 528 112, 571	53. 48. 70.
Evanston, Ill	1921 1922 1923	415 832 1, 151	37, 234	111. 5 223. 5 309. 1	39, 047 40, 256 41, 465	106. 206. 277.
Evansville, Ind	1922 1923 1921	509 797 15	85, 264 40, 120	59. 7 93. 5 3. 7	89, 053 90, 569 41, 145	57. 88. 3.
Fall River, Mass	1922 1923 1921	63 128 141	120, 485	15. 7 31. 9 11. 7	41, 828 42, 511 120, 668	15. 30. 11.
Fitchburg, Mass	1922 1923 1921	505 564 119	41, 029	41. 9 46. 8 29. 0	120, 790 120, 912 41, 523	41. 46. 28.
Flint, Mich	1922 1923 1921	154 172 348	91, 599	37. 5 41. 9 38. 0	41, 853 42, 183 105, 620	36. 40. 32.
Fort Wayne, Ind	1922 1923 1921	403 1, 990 586	86, 549	44. 0 217. 3 67. 7	111, 794 117, 968 89, 525	36. 168. 65.
Fort Worth, Tex	1922 1923 1921	1, 406 1, 533 909	106, 482	162. 5 177. 1 85. 4	91, 549 93, 573 111, 423	153. 163. 81.
Galveston, Tex	1922 1923 1921	1, 201 1, 597 103	44, 255	112. 8 150. 0 23. 3	121, 535 143, 821 45, 379	98. 111. 22.
Gary, Ind	1922 1923 1921	252 154 494	55, 378	56. 9 34. 8 89. 2	46, 128 46, 877 61, 239	54. 32. 80.
	1922 1923	428 656		77. 3 118. 5	65, 146 69, 054	65. 95.

¹ Not estimated. ² City building code adopted July 25, 1923; no records kept before that date.

TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 16,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued.

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City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of speci- fied year	Ratio of familie provide for to each 10, of population of specified year.
Grand Rapids, Mich	1921 1922	630 1, 402	137, 634	45. 8 101. 9	141, 197 143, 572	4
Green Bay, Wis	1923 1922	1, 083	31, 017	78. 7 42. 6	145, 947 32, 505	
Hamilton, Ohio	1923 1921 1922	194 192 161	39, 675	62. 5 48. 4 40. 6	33, 100 40, 553 41, 005	4
Hammond, Ind	1923 1921 1922	287 288 403	36, 604	72. 3 80. 0 111. 9	41, 458 38, 334 44, 721	1
Hamtramck, Mich	1923 1921 1922	782 276 509	48, 615	217. 2 56. 8 104. 7	46, 609 57, 647 63, 668	10
Harrisburg, Pa	1923 1921 1922	553 179 500	75, 917	113. 8 23. 6 65. 9	69, 689 78, 837 79, 983	
Hartford, Conn	1923 1921	736 717	138, 036	96. 9 51. 9	81, 129 (1)	
Haverhill, Mass	1922 1923 1921	1, 148 1, 560 117	53, 884	83. 2 113. 0 21. 7	(1) 55, 393	*******
Hazleton, Pa	1922 1923 1921	175 134 38	32, 277	32. 5 24. 9 11. 8	56, 399 57, 405 33, 331	
Highland Park, Mich	1922 1923 1921	147 219 250	46, 499	45. 5 67. 9 53. 8	34, 034 34, 737 53, 533	
Hoboken, N. J.	1922 1923 1921	520 780 0	68, 166	111. 8 167. 7 0	58, 222 62, 911	1
Holyoke, Mass	1922 1923	27 9 99	60, 203	4. 0 1. 3 16. 4	(1) (1) (60, 584	*****
A DIVE TA	1921 1922 1923	235 262		39. 0 43. 5	60, 839 61, 094	
Houston, Tex	1921 1922 1923	2, 572 3, 101 2, 875	138, 276	186. 0 224. 3 207. 9	145, 188 150, 079 154, 970	1 2 1
Huntington, W. Va	1921 1922 1923	777 773 984	50, 177	154. 9 154. 1 196. 1	54, 352 56, 135 57, 918	1:
Indianapolis, Ind	1921 1922 1923	2, 565 4, 131 3, 638	314, 194	81. 6 131. 5 115. 8	325, 632 335, 012 342, 718	1
Irvington, N. J	1921 1922	389 672	25, 480	152. 7 263. 7	27, 582 28, 983	1 2
Jackson, Mich	1923 1921 1922	1, 313 108 331	48, 374	515. 3 22. 3 68. 4	30, 384 50, 992 52, 737	4
Jacksonville, Fla	1923 1921 1922	347 747 609	91, 558	71. 7 81. 6 66. 5	54, 482 95, 196 97, 621	
amestown, N. Y	1923 1922 1923	877 161 216	38, 917	95. 8 41. 4 55. 5	100, 046 40, 879 41, 664	nD:
ersey City, N. J	1921 1922	970 1, 776	298, 103	32. 5 59. 6	302, 788 305, 911	
ohnstown, Pa	1923 1921 1922	2, 438 593 199	67, 327	81. 8 88. 1 29. 6	309, 034 68, 458 69, 212	,,,
oplin, Mo	1923 1922 1923	519 14 15	29, 902	77. 1 4. 7 5. 0	69, 966 (1)	
Kalamazoo, Mich	1921 1922	200 246	48, 487	41. 2 50. 7	49, 886 50, 817	
Cansas City, Kans	1923 1921 1922	298 395 515	101, 177	61. 5 39. 0 50. 9	51, 749 103, 884 113, 801	
Cansas City, Mo	1923 1921 1922	2, 578 4, 668	324, 410	86. 9 79. 5 143. 9	115, 781 336, 157 343, 988	in I

TABLE 4.-NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE-Continued.

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44.6 97.7 74.2 40.6 58.6 47.3 39.3 69.2 75.1 167.8 47.9 79.9 42.7 62.5 90.7

21.1 31.0 23.3 11.4 43.2 63.0 46.7 89.3 124.0

16.3 38.6 42.9 177.1 1 206.6 6 185.5 143.0 137.7 7 78.8 123.3 1141.2 21.2 6 63.7 7 8.5 62.4 51.8 8.6 63.7 7 8.5 8.6 8.7 7 8.9 8.6 6.8 8 7.4 2

40. 1 48. 4 57. 6 38. 0 45. 3 75. 9 76. 7 135. 7 182. 7

City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of speci- fied year	Ratio of families provided for to each 10,000 of popu- lation as of speci- fied year
Kearney, N. J.	1921 1922	205 295	26, 724	76, 7 110, 4	27, 969 28, 799	73. 1 102.
186.00	1923	309		115. 6	29, 629	104.
Kenosha, Wis	1921 1922	128 157	40, 472	31. 6 38. 8	.43, 054 44, 858	29. 1 35. 0
THE ASS. 17 CM	1923	287		70. 9	46, 662	61.
Kingston, N. Y	1923	159	26, 688 77, 818	59. 6 62. 8	26, 969 82, 275	59. 59.
Knoxville, Tenn	1921 1922	489 854	11,010	109. 7	85, 572	99.1
1807	1923	982		126. 2	88, 869	110.
Kokomo, Ind	1921	166	30, 067	55. 2 61. 2	32, 234 33, 420	51.
A Baller Lat.	1922 1923	379	~~~~~~~	126. 1	34, 565	109.
Lakewood, Ohio	1921	877	41, 732	210. 2	45, 834	191.
	$\frac{1922}{1923}$	1, 743 1, 956		417. 7 468. 7	48, 569 51, 304	358. 381.
Lancaster, Pa	1921	73	53, 150	13. 7	54, 065	13.
Laurice to y	1922	516		97. 1	54, 675	94.
Jansing, Mich	1923 1921	322 492	57, 327	60. 6 85. 8	55, 285 60, 989	58. 80.
Lansing, Mich	1922	755	01,021	131. 7	63, 430	119.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1923	1,019	04 070	177. 8	65, 871	154.
Lawrence, Mass	1921 1922	307 606	94, 270	32. 6 64. 3	95, 563 96, 426	32. 62.
THE THE PARTY AND THE PARTY AN	1923	1, 283		136. 1	97, 289	131.
Lewiston, Me	1923	319	31, 791	100. 3	33, 790	94.
Lexington, Ky	1921 1922	127 267	41, 534	30. 6 64. 3	42, 451 43, 062	- 29. 62.
a see at	1923	143		34. 4	43, 673	32.
Lima, Ohio	1921	155	41, 326	37.5	42, 797 43, 777	36. 51.
17.55	1922 1923	227 344	******	54. 9 83. 2	44, 757	76.
Lincoln, Nebrana	1921	241	54, 948	43. 9	56, 582	42.
biscossi, attabases	1922	415		75. 5 86. 6	57, 671 58, 761	72. 81.
Little Rock, Ark	1923 1921	476 749	65, 142	115. 0	67, 616	
Little Rock, Alkana	1922	936		143. 7	69, 266	135,
	1923	695	55, 593	106. 7 698. 3	70, 916 61, 430	98. 631.
Long Beach, Calif	1921 1922	3, 882 7, 061	00, 000	1, 270, 1	65, 322	1, 081.
	1923	7, 185		1, 292. 4	69, 214	1, 038,
Lorain, Ohio	1921	146	37, 295	39. 1 25. 7	38, 795 39, 661	37. 24.
	1922 1923	226		60. 6	40, 527	55.
Los Angeles, Calif	1921	19, 572	576, 673	339. 4	609, 821	320.
1000	1922	28, 033		486. 1 760. 3	634, 866 666, 853	441. 657.
Louisville, Ky	1923 1921	43, 842 677	234, 891	28. 8	236, 083	28.
The state of the s	1922	1, 548		65. 9	256, 877	60.
I am II affected	1923	2, 303	112, 759	98. 0 23. 0		89.
Lowell, Mass	1921 1922	259 210	112, 100	18. 6		18.
	1923	526		46. 6	115, 089	
Lynchburg, Va	1921	50		16. 6 34. 6		
	1922 1923	104	A STATE OF THE STA	30. 6	30, 277	30.
Lynn, Mass	1921	140		14.1	100, 663	
Lynn, Mass	1922	135		13. 6		13. 24.
McKeesport, Pa	1923 1921	246 127	46, 781	27. 1	47, 413	26.
THE RESERVE THE PROPERTY OF THE PARTY OF THE	1922	190		40. 6	47, 834	39
7 TO MILE TO M	1923	187		40. 0		38 29
Macon, Ga	1921 1922	162 254		47. 9		45
500,20 11.55	1923	212		40. 0	56, 331	37
Madison, Wis	1921	283	38, 378	73. 7		
Di.00	1922	603		157. 1 176. 4		
Maiden, Mass:	1923 1921	94		19. 1	49, 829	18
	1922	89		18. 1	50, 313	3 17

TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

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1921 1922 1923 1921	210				of popu- lation as of speci- fied year
1923	273	78, 384	26, 8 34, 8	79, 670 80, 526	26,
1922	370 72 145	27, 824	47. 2 25. 9 52. 1	81, 383 28, 913 29, 639	33. 45, 24, 48,
1923 1921 1922	267 44 68	27, 891	15. 8 24. 4	29, 151 29, 991	87. 15. 22.
1923 1921 1922	224 256 501	39, 038	80. 3 65. 6 128. 3	30, 831 41, 500 43, 141	72 61 116
1923 1521 1922	662 1, 245 2, 244	162, 351	169. 6 76. 7 138. 2	44, 782 165, 656 167, 862	147. 75. 133.
1923 1921	2, 136 71 117	29, 867	131. 6 23. 8 39. 2	170, 067 30, 269 35, 458	125 23 33
1923 1922	129 959 2 338	29, 571	43. 2 324. 3 700. 6	35, 736 35, 776 38, 258	36 268 611
1921 1922	2, 212 2, 964	457, 147	48. 4 64. 8	469, 111 477, 103	47 62
1921 1922	3, 574 4, 663	380, 582	93. 9 122. 5	392, 815 400, 970	91 116
1921 1922	140 135	60, 777	23. 0 22. 2	62, 098 62, 978	122 22 21
1923 1921 1922	38 69	30, 734	31. 3 12. 4 22. 5	31, 600 32, 177	12 12 21
1921 1922	276 503	28, 810	20. 5 95. 8 174. 6	29, 931 30, 678	19 95 16
1923 1921 1922	814 83 105	43, 464	282. 5 19. 1 24. 2	31, 426 44, 286 44, 834	256 11 22
1923 1921 1922	103 246 834	42, 726	23. 7 57. 6 195. 2	45, 383 44, 550 45, 766	2 5 18
1923 1921 1922	479 64 103	36, 524	112. 1 17. 5 28. 2	46, 982 38, 151 39, 236	10 10 20
1923 1921	221 129 115	36, 570	60. 5 35. 3	40, 321 38, 348 39, 533	5: 3: 2:
1923 1921 1922	200 200 1 318	30, 277	54. 7 85. 9 105. 0	40, 718 30, 795 31, 140	8 10
1923 1921 1922	298 470 696	118, 342	98. 4 39. 7 58. 8	31, 485 119, 536 120, 332	9 3 5
1923 1921	752 1, 393	414, 524	63. 5 33. 6	121, 128 424, 885	6 3 6
1923 1921	3, 920 52	26, 718	94. 6 19. 5	438, 699 26, 920	8 1 3
1923 1921	152 522	121, 217	56. 9 43. 1	30, 191 125, 012	5 4
1923 1921	1, 196 215	59, 316	98. 7 36. 2	130, 072 61, 695	3
1923 1921	362 129	32, 779	61. 0 39. 4	64, 867 34, 198	
1923 1921	247	30, 36	75. 4 21. 1	36, 090 30, 761	6 2
The state of the s	1922 1923 1921 1922 1923 1922 1923 1922 1923 1922 1923 1922 1923 1924 1925 1926 1926 1926 1927 1927 1928 1928 	1922	1922	1922	1922

TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of specified year	Ratio of families provided for to each 10,000 of popu- lation as of speci- fied year
New Haven, Conn	1921 1922	444 747	162, 537	· 27.3	167, 007 169, 987	26 d 43 d
New London, Conn	1923 1921 1922	865 89 101	25, 688	53. 2 34. 6 39. 3	172, 967 26, 620 27, 240	50 (33 (37.
New Orleans, La	1923 1921 1922	2, 335 3, 426	387, 219	39. 7 60. 3 88. 5	27, 861 394, 657 399, 616	36 59. 1 85. 1
Newport, Ky	1923 1921 1922	3, 271 12 9	29, 317	84. 5 4. 1 3. 1	404, 575 (1) (1)	80.9
Newport, R. I	1923 1921 1922	14 45 40	30, 255	4. 8 14. 9 13. 2	(1) 30, 734 31, 054	14. 12.
Newport News, Va	1923 1921 1922	30 63 19	35, 596	9. 9 17. 7 5. 3	31, 374 (1) (1)	9, (
New Rochelle, N. Y	1923 1921 1922	20 247 532	36, 213	5. 6 68. 2 146. 9	(1) 37, 348 38, 104	66. 139.
Newton, Mass	1923 1921 1922	454 249 583 520	46, 054	125. 4 54. 1 126. 6 112. 9	38, 860 47, 019 47, 662	116. 53. 122.
New York, N. Y	1923 1921 1922 1923	51, 360 91, 164 105, 672	5, 620, 048	91. 4 162. 2 188. 0	48, 305 5, 751, 867 5, 839, 746 5, 927, 625	107. 89. 156. 178.
Niagara Falls, N. Y	1921 1922 1923	286 422 533	50, 760	56. 3 83. 1 105. 0	53, 898 55, 990 58, 082	53. 75. 91.
Norfolk, Va	1921 1922 1923	419 732 995	115, 777	36. 2 63. 2 85. 9	121, 260 124, 915 159, 089	34. 58. 62.
Norristown, Pa	1921 1922 1923	31 135 244	32, 319	9. 6 41. 8 75. 5	33, 005 33, 462 33, 920	9, 40. 71.
Norwalk, Conn	1921 1922 1923	72 110 105	27, 743	26. 0 39. 6 37. 8	28, 288 28, 651 29, 015	25. 38. 36.
Dakland, Calif	1921 1922 1923	2, 681 4, 313 5, 008	216, 261	124. 0 199. 4 231. 6	226, 472 233, 279 240, 086	118. 184. 208.
Oak Park, Ill	1921 1922 1923	720 1, 065 1, 405	39, 858	180. 6 267. 2 352. 5	43, 012 45, 114 47, 217	167. 236. 297.
Ogden, Utah	1921 1922 1923	477 413 339	32, 804	145. 4 125. 9 103. 3	33, 911 34, 652 35, 391	140. 119. 95.
Oklahoma City, Okla	1921 1922 1923	1, 724 1, 398 1, 418	91, 295	188. 8 153. 1 155. 3	95, 590 98, 370 101, 150	180. 142. 140.
Omaha, Nebr	1921 1922 1923	1, 298 1, 784 1, 951	191, 601	67. 7 93. 1 101. 8	197, 096 200, 739 204, 382	65. 88. 95.
Drange, N. J.	1921 1922 1923	55 116 107	33, 268	16. 5 34. 9 32. 2	33, 880 34, 254 34, 629	16. 33. 30.
Oshkosh, Wis	1921 1922 1923	64 78 120	33, 162	19. 3 23. 5 36. 2	33, 177 33, 187 33, 197	19. 23. 36.
Pasadena, Calif	1921 1922 1923	1, 262 1, 225 1, 825	45, 354	278. 3 270. 1 402. 4	50, 145 51, 766 53, 388	251. 236. 341.
Passaic, N. J	1921 1922 1923	426 376 544	63, 841	66. 7 58. 9 85. 2	67, 111	65. 56. 81.
Paterson, N. J.	1921 1922 1923	587 685 955	135, 875	43. 2 50. 4 70. 3		42 49 68
Pawtucket, R. I	1921 1922 1923	· 277 466 763	64, 248	43. 1 72. 5 118. 8	66, 198 67, 499	41 69

¹ Not estimated.

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TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

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City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of speci- fied year	Ratio of familie provide for to each 10,0 of population a of specified year.
Peoria, Ill	1921		76, 121	39. 4	77, 787	3
1 PA	1922 1923	432		56. 8 56. 8		5
Perth Amboy, N. J	1923	110	41, 707	26. 4		5 2
A12	1922	77		18. 0	44, 175	l i
Petersburg, Va	1923 1921	74 74	31 012	17. 7. 23. 9	45, 162 32, 076	1
1000	1922	119	31, 012	38. 4	33, 585	3
18	1923	62	1 000 770	20. 0	34, 294	1
Philadelphia, Pa	1921 1922	2, 406 10, 453	1, 823, 779	13. 2 57. 3	1, 866, 212 1, 894, 500	1 5
warmen of the Control	1923	8, 972		100 00	1, 922, 788	4
Phoenix, Ariz	1921	407	29, 053	140. 1		13
a little of	1922 1923	714 204		245. 8 70. 2	32, 514 33, 899	21
Pittsburgh, Pa	1921	1, 335	588, 343	22.7		2
Control N	1922	2,711		46. 1	607, 902	4
ittsfield, Mass	1923 1921	2, 577	41, 763	43.8	613, 442	4
And I see all the second	1922	110		26. 3	44, 246	2
lainfield, N. J.	1923 1921	129 135	27, 700	30. 9	45, 239 28, 804	2
The state of the s	1921	265	21, 100	95. 7	29, 540	8
ontiac, Mich	1923	311		112.3	30, 276	10
ontiac, Mich	1921 1922	60	34, 273	17. 5		J
250 No. 4 800 NO.2 9 NO.	1923	96		28.0		2
ort Huron, Mich	1921 -	219	25, 944	84. 4	27, 038	8
100.00 SC 00001 100001	1922 1923	173 148		66. 7 57. 0		€ 5
ortland, Me	1921	207	69, 272	29. 9	70, 926	2
ME 10 10 10 1 0 22	1922	396		57. 2	72, 027	
ortland, Oreg	1923 1921	378	258, 288	54. 6 121. 4	73, 129 264, 859	11
TO 100 100 100 100 100 100 100 100 100 10	1922	3, 658		141.6	269, 240	13
ortsmouth, Ohio	1923 1921	4, 079	33, 011	157. 9	273, 621 36, 210	14
250	1922	261	00, 011	79. 1	36, 929	7
ortsmouth, Va	1923	167		50.6	37, 648	4
ortsmouth, Va	1921 1922	121	54, 387	22. 2 18. 9		1
1000 C 100 C	1923	81		14.9	57, 341	
oughkeepsie, N. Y	1921	60	35, 000			
SECTION TIETA . 16 tac.	1922 1923	128 260		36. 6 74. 3	36, 818 37, 545	
rovidence, R. I	1921	566	237, 595	. 23. 8	239, 645	1
SECTION NOT SEE A COL	1922	1, 135		47.8	241, 011	1
mobile Cole	1923 1921	1, 307 288	43, 050	55. 0 66. 9	242, 378 43, 251	
debio, Colo	1922	250		58. 1	43, 385	
minor III	1923 1921	221 20	35, 978	51. 3	43, 519 37, 478	
88.000 1.000 1.000	1921	81	00, 010	22. 5	37, 478	1
A 101 A 102 A 101	1923	125	47 070	. 34. 7	37, 478	1 3
uincy, Mass	1921 1922	404 667	47, 876	84. 4	50, 230 51, 799	13
ON 19 11 DESO, J.C. 12.25	1923	837		174.8	53, 368	13
tacine, Wis	1921	169	58, 593	28.8	61, 079	1
St. 2 - cost Brillell ask	1922 1923	191 263	******	32.6	62, 736 64, 393	
anding De College	1922	333	107, 784	30. 9	110, 022	
1 001 146 1 1 015	1923	387		35. 9	110, 917	3
levere, Mass	1921 1922	152 179	28, 823	52. 7 62. 1	30, 461	8
MC 05 177 M	1923	237		82. 2	32, 645	
tiehmond, Ind	1921	41	26, 765	15. 3	27, 667	
N 153 #65 A-05	1922 1923	84 127		31. 4 47. 5	28, 124 28, 581	4
ichmond, Va	1921	741	171, 567	43. 2	175, 686	4
70 (100 700 7 55)	1922	1, 363		79.4	178, 365 181, 044	190 2

TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of speci- fied year	Ratio of families provided for to each 10,000 of popu- lation as of speci- fied year
Roanoke, Va	1921 1922	351 563	50, 842	69. 0 110. 7	52, 796 54, 149	66. 104.
Rochester, N. Y	1923 1921 1922 1923	687 1, 319 1, 865 2, 533	295, 750	135. 1 44. 6 63. 1 85. 7	55, 502 305, 229 311, 548 317, 867	123. 43. 59. 79.
Rockford, III	1921 1922 1923	351 380 566	65, 651	53. 5 57. 9 86. 2	68, 551 70, 485 72, 419	51. 53. 78.
Rock Island, III	1921 1922 1923	94 128 165	35, 177	26. 7 36. 4 46. 9	36, 513 37, 403 38, 293	25. 34. 43.
Sacramento, Calif	1921 1922 1923	737 1, 187 1, 428	65, 908	111. 8 180. 1 216. 7	67, 640 68, 795 69, 950	109. (172.) 204.
Saginaw, Mich	1921 1922 1923	251 509 405	61, 903	40. 5 82. 2 65. 4	67, 408 68, 581 69, 754	37. 74. 58.
st. Joseph, Mo	1921 1922 1923	7 225 379	77, 939	28. 9 48. 6	78, 122 78, 177 78, 232	28. 48.
St. Louis, Mo	1921 1922 1923	2, 072 4, 013 5, 544	772, 897	26. 8 51. 9 71. 7	786, 164 795, 008 803, 853	26. 50. 69.
St. Paul, Minn	1921 1922 1923	2, 194 2, 535 2, 763	234, 698	93. 5 108. 0 117. 7	237, 781 239, 836 241, 891	92. 105. 114.
Salem, Mass	1921 1922 1923	21 42 106	42, 529	4. 9 9. 9 24. 9	(1) (1) (1)	
Salt Lake City, Utah	1921 1922 1923	826 893 1, 384	118, 110	69. 9 75. 6 117. 2	121, 595 123, 918 126, 241	67. 72. 109.
San Antonio, Tex	1921 1922 1923	1,718 1,654 1,587	161, 379	106, 5 102, 5 98, 3	171, 385 178, 066 184, 727	100. : 92. : 85. :
San Diego, Calif	1921 1922 1923	1, 450 1, 900 2, 016	74, 683	194, 2 254, 4 269, 9	79, 990 83, 528 87, 126	181. 227. 231.
San Francisco, Calif	1921 1922 1923	2, 683 6, 284 6, 794	508, 676	52, 7 123, 5 133, 6	520, 546 529, 792 539, 038	51. 118. 126.
San Jose, Calif	1921 1922 1923	300 388 550	39, 642	75. 7 97. 9 138. 7	40, 613 41, 260 41, 957	73. 94. 131.
Savannah, Ga	1921 1922 1923	347 295 239	83, 252	41. 7 35. 4 28. 7	85, 908 87, 678 89, 448	40. 33. 26.
Scheneetady, N. Y	1921 1922 1923	193 336 522	88, 723	21. 8 37. 9 58. 8	91, 102 92, 687 94, 273	21. 36. 55.
Granton, Pa	1921 1922 1923	75 406 360	137, 783	5. 4 29. 5 26. 1	139, 006 139, 821 140, 636	5. 29. 25.
Seattle, Wash	1921 1922 1923	1, 961 2, 920 2, 936	315, 312	62. 2 92. 6 93. 1	(1) (1) (1)	
heboygan, Wis	1921 1922 1923	90 177 228	30, 955	29. 1 57. 2 73. 7	31, 659 32, 128 32, 597	28. 55. 69.
sureveport, Da	1921 1922 1923	1, 157 1, 270 1, 396	43, 874	263. 7 289. 5 318. 2	46, 324 47, 957 54, 590 74, 842	249. 264. 255. 85.
Sioux City, Iowa	1921 1922 1923	638 728 567	71, 227	89. 6 102. 2 79. 6	74, 842 77, 252 79, 662 26, 918	94. 71. 112.
Sioux Falls, S. Dak	1921 1922 1923	303 357 394	25, 202	120. 2 141. 7 156. 3	28, 062 29, 206	127. 134. 21.
Somerville, Mass	1921 1922 1923	204 401 347	93, 091	21. 9 43. 1 37. 3	95, 541 97, 174 98, 807	41. 35.

1 Not estimated.

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TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIED YEARS, BY CITY AND STATE—Continued

TABL OF LA

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City and State	Year	Number of families provided for	Population as of 1920 census	Ratio of families provided for to each 10,000 of popu- lation as of 1920	Estimated population as of specified year	Ratio of families provided for to each 10,00 of popu- lation as of speci- fied year
South Bend, Ind	1921	665	70, 983	93. 7	73, 354	90
201 101 201 1740	1922	1,598		225. 1 256. 5	75, 093 76, 709	212
Spokane, Wash	1923 1921	1,821	104, 437	41. 9	104, 442	237 41
V 11 10 11 10 11 10 10 10 10 10 10 10 10	1922	517		49. 5	104, 570	49
Series Sald III	1923	375 210	59, 183	35, 9 35, 5	104, 573 60, 319	35
Springfield, Ill	1921 1922	473	00, 100	79. 9	61, 076	34 77
85 BU AT E.As	1923	385		65. 1	61, 833	62
Springfield, Mass	1921 1922	827 1, 723	129, 614	63. 8 132. 9	135, 877 140, 052	60
AG (00 AG) 4 AG	1923	1, 589		122. 6	144, 227	123 110
Springfield, Ohio	1921	253	60, 840	41.6	62, 990	40
190 1 08,785 173	1922 1923	357 346		58. 7 56. 9	64, 423 65, 857	55 52
Stamford, Conn	1923	190	35, 096	54. 1	36, 634	51
4/4/4/	1922	397		113. 1	37, 659	103
Stockton, Calif	1923 1921	497 624	40, 296	141. 6 154. 9	38, 685 42, 507	125
Stockton, Cam	1922	583	20, 200	144. 7	43, 702	133
20 . 100 20 724	1923	552		137. 0	44, 897	12.
Superior, Wis	1921 1922	104	39, 671	26. 2 24. 2	(1)	
200 AND AND THE	1923	128		32. 3	(1)	
Syracuse, N. Y	1921	627	171, 717	36. 5	177, 514	3
100,01 200,535 103	1922	968		56. 4 59. 2	181, 012 184, 511	5 5
Tacoma, Wash	1923 1921	1, 017 843	96, 965	86. 9	99, 007	8
, deviate, 77 mm 244000000000000000000000000000000000	1922	862		88. 9	100, 369	8
Danier Tile	1923	861 422	51, 608	88. 8 81. 8	101, 731 54, 781	8 7
Tampa, Fla	1922 1923	691	31, 009	133. 9	56, 050	12
Taunton, Mass	1922	129	37, 137	34. 7	37, 877	3
Borre 27 15 (SE 15) (Limit 1)	1923	106	66, 083	28. 5 114. 7	38, 173 67, 308	2
Terre Haute, Ind	1921 1922	758 405	00, 000	61. 3	68, 123	5
person lieuvis - 11 Jan	1923	460		69. 6	68, 939	6
Toledo, Ohio	1921 1922	600 1, 126	243, 164	24. 7 46. 3	253, 696 260, 717	2
	1923	1, 459		60.0	268, 338	5
Topeka, Kans	1921	188	50, 022	37.6	51, 000	3
120, 6 100, 639 129	1922	342 479		68. 4 95. 8	51, 902 52, 555	9
Trenton, N. J.	1923 1921	317	119, 289	26. 6	122, 760	1
	1922	556		46. 6	125, 075	4
7 N V	1923	785	72, 013	65. 8 11. 9	127, 390	1
Troy, N. Y	1921 1922	86 170	14,013	23. 6	(1)	
200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1923	100		13. 9	(1)	
Tulsa, Okla	1921 1922	1, 138 1, 753	72, 075	157. 9 243. 2	84, 850 93, 558	111111111111111111111111111111111111111
AN PERSON NAME OF STREET	1923	1, 498		207. 8	102, 018	1
Utica, N. Y	1921	478	94, 156	50. 8	99, 442	
25 100 100 255	1922 1923	842 666		89. 4 70. 7	101, 599 103, 457	
Waltham, Mass	1921	137	30, 915	44.3	31, 391	1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1922	114		36. 9	31, 708	
Wanna Ohio	1923	177	27, 050	57. 3 63. 2	32, 025 29, 131	Ox.
Warren, Ohio	1921 1922	171 176	21,000	65. 1	30, 518	
Mark - 110 of 1002 ct 1 2 2507	1923	269		99. 4	31, 905	
Washington, D. C	1921	2, 195	437, 571	50. 2	(1)	
MC 11 0 005 At 12 818	1922 1923	5, 266 4, 203		120. 3 96. 1	(1)	
Waterbury, Conn	1921	271	91,715	29.5	94, 585	
70.6 70.000 70.000	1922	284		31.0	96, 498	
Waterles Town	1923 1921	232 111	36, 230	25. 3 30. 6	98, 411 37, 703	
waterioo, lowa	1922	106	50, 200	29. 3	38, 685	

TABLE 4.—NUMBER OF FAMILIES PROVIDED WITH DWELLINGS AND THE RATIO OF SUCH FAMILIES TO 10,000 OF POPULATION OF 1920 AND OF ESTIMATED POPULATION OF SPECIFIC YEARS, BY CITY AND STATE—Concluded

Year	Number of families provided for	Population as of 1920 census	for fo	Estimated population as of speci- fied year	Ratio of families provided for to each 10,000 of popu- lation as of speci- fied year
1921	88	31, 285	28. 1	31, 989	27.
1922	122		39. 0	32, 458	37.6
					48. 0
		40, 974			13.
					33.
		90 026			82.
		23, 020			102.
					234.
		56, 208		(1)	
1922				(1)	
1923	423		75.3	(1)	
1921	1, 336	72, 217	185. 0	75, 293	177.
1922	1, 366		189. 2		176.8
	1, 527				192.
		73, 833			11.0
					67.
		110 100			83.
		110, 105			5.1
					22.
					48.0
		00,012			52
					23.1
		48, 395			69.
					100.
	740		152. 9	56, 230	131.
1921	369	43, 496	84. 8	44, 325	83.
1922	609		140.0		135.
					114.
		179, 754			38.
					43.
		100 170			53.
		100, 170			41. 65.
					79.
		47 159		47 939	13.
		21, 104		48, 222	37.
					56.
1921	724	132, 358	54.7	(1)	
1922	734		55, 5	(1)	
1923	972		73.4	(1)	
1921	56	29, 569	18.9		18.
1922	145		49.0		48.
1923	282		95. 4	30, 124	93.
1021	995 129	26 643 576	61.4	37 600 713	59.
					97.
1923	459, 471	37, 158, 648	123. 7	39, 835, 875	115.
	1921 1922 1923 1923	Year families provided for 1921	Year families provided for Fobiliation as of 1920 census 1921 88 31, 285 1922 122 1923 1921 56 40, 074 1922 138 1921 1923 138 29, 926 1922 351 29, 926 1923 138 29, 926 1922 351 29, 926 1923 423 29, 926 1923 423 29, 926 1923 423 29, 926 1923 423 29, 926 1923 423 29, 926 1923 423 29, 926 1923 423 29, 926 1923 423 29, 926 1924 1, 336 72, 217 1922 1, 66 1923 1923 1, 527 1921 1924 1, 66 110, 168 1923 267 1, 33, 372 1921 165 33, 372	Number of families provided for to each 10,000 of population as of 1920 census	Number of families provided for Population as of 1920 Population as of 1920 Population as of 1920 Population as of 1920 Population as of specified year

¹ Not estimated.

Building Activity in New York City

THE New York Building Congress has recently felt it necessary to call attention to the danger of undertaking too large a program of building during the present year. The construction begun in New York last year exceeded anything previously known, but this year is starting out with the prospect of exceeding that record. The statement issued by the congress, given in the Record and Guide for April 5, 1924, gives some comparative figures bearing on the situation.

During the months October, November, December, and January a year ago contracts were awarded in New York City for buildings having a total floor area of about 30,000,000 square feet. During the four months ending with January

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Ratio of families provided for to ach 10,000 of popuation as of speci-

> 90, 7 212, 8 237, 4 41, 9 40, 4 35, 9 34, 8 77, 4 62, 2 60, 9 123, 0 110, 2 40, 2 55, 4 52, 5 51, 9 105, 4

35.1 55.1 85.1 85.1 84.6 77.0 123.3 34.1 27.8 112.6 59.6

66. 7 23. 7 43. 2 54. 4 36. 9 91. 1 25. 8 44. 5 61. 6

187. 7 146. 8 48. 1 82. 9 64. 4 43. 6 36. 0 55. 3 58. 7 57. 7 84. 3

28.6 29.4 23.6 29.4 27.4 of this year the corresponding figure was about 58,000,000 square feet—almost double. Last year under the burden of unprecedented demand for labor and the construction industry became badly disorganized. This year the

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pressure threatens to be even more severe.

Unquestionably there is a large construction demand. Unless the public is willing to use some foresight in planning for its fulfillment, the demand will run ahead of the existing machinery of production and the public will pay an unduly high price, with the probability of subsequent shrinkage of investment values. To secure stability of investment values, projects should be planned over a period of time that will permit the existing machinery of the building industry to produce needed buildings on a reasonable basis.

It does not seem necessary as yet to recommend against the undertaking of

new building operations, but the necessity will soon arise unless-

(1) Owners, architects, and investors take stock of the situation and of their own accord abstain temporarily from adding to the pressure on the building

(2) Owners, contractors, subcontractors, and labor exercise the utmost fore-

sight, fairness, and forbearance in their relations with one another.

In commenting on this warning the Record and Guide calls attention to the fact that the figures given are only up to the beginning of February and that later figures show an even greater increase over preceding years. The contracts awarded in the five boroughs during March, 1924, it is stated, amount to \$131,611,100, which is an increase of 83 per cent over the total for February and of 130 per cent over the figures for March, 1923. The index number of construction value for March, 1924, is 269, "which means an advance of 169 above normal—general growth and normal seasonal increase being taken into consideration.

It is estimated that the number of skilled building workers available in New York this season will be close around 80,000, which is about 5 per cent greater than the number last year. The increase, of course, is far from commensurate with the increase already visible in the building program. On the other hand most of the trades have signed agreements covering two years ahead, so that there is a good

prospect of industrial peace.

Tax Exemption and Housing Progress in New York City

N March 14, 1924, the State Commission of Housing and Regional Planning of New York rendered to the governor and legislature a report and recommendations dealing with the extension of the tax-exemption ordinance. The original ordinance, passed in February, 1921, applied to housing on which construction was begun before April 1, 1922, and finished within two years. Such houses were to be exempt from taxation, except for local improvements, up to 1932, exemption being granted only to the extent of \$1,000 per room, for not over five rooms. In multi-family houses, the exemption was to apply to the value of \$5,000 for each separate family apartment, with the same proviso as to rooms. By successive enactments, the time within which dwellings must be begun in order to claim the exemption was extended to the spring of 1924, and bills for a further extension for one year were presented to the legislature this past winter. thruchico office so

The commission presents three recommendations:

1. That the legislature amend section 4 B of the tax law to permit municipalities to exempt from taxation for local purposes, other than assessment for local improvements, until January 1, 1932, new buildings planned for dwelling purposes exclusively, including buildings three stories in height used exclusively for dwelling purposes above the ground floor, except hotels, provided construction be commenced after April 1, 1924, and before April 1, 1925.

2. That in the city of New York the municipal officials consider the advisability of further restricting the exemption in such a manner that its benefits so far as possible will be enjoyed by home owners and tenants and not-by commercial builders or landlords and so that it shall be applied only to buildings constructed in accordance with reasonable standards with relation to sanitation and fire hazards. This may be accomplished by some such means as that of limiting tax exemption to one and two family houses to be sold for a limited price and to apartments to be sold on the so-called "cooperative ownership" plan at a limited price or for which a limited rental will be charged.

3. That Chapter 658 of the Laws of 1922 be further amended to permit foreign and domestic life insurance companies to engage in building residential property until March 1, 1926, and so long thereafter as the housing emergency shall continue.

The commission admits that tax exemption is a subsidy, but justifies its recommendations on the grounds that it has led to the building of large numbers of moderate-priced homes since 1921, that the need for such dwellings is still far in excess of the supply, and that their production will be greatly diminished if the exemption is discontinued. The building records of the city are quoted to show the extent to which exemption stimulated residential building.

Permits for dwelling houses in 1921 showed accommodations for twice as many families as were provided for by the 1920 permits. The value of the new housing projects in 1921 showed an increase of 246 per cent as compared with 1920, while general construction in the same period showed an increase of only 58 per cent. The upward trend continued into 1922. Building permits issued in the month

The upward trend continued into 1922. Building permits issued in the month of March reached an astounding figure, chiefly, if not wholly, through fear of the expiration of the law. There was a rush to get building started in time to get the benefits. On March 28, 1922, the tax-exemption ordinance was extended in New York City for one year, following a further amendment of the tax law, * * The building permits filed in the five boroughs in 1922 totaled 33,803 for dwellings and 2,205 for tenements.

This boom year, however, was surpassed in 1923 when the total volume of building permits was 38,351 for dwellings and 3,630 for tenements. As in the

This boom year, however, was surpassed in 1923 when the total volume of building permits was 38,351 for dwellings and 3,630 for tenements. As in the preceding year permits in the month of March reached an astounding peak—a total of \$145,000,000 for building permits in New York City. This unprecedented peak is due to the fear that the tax-exemption law would be permitted to lapse. The building period for tax exemption expired in April of that year and was not extended until June, leaving a period of three months during which there was great uncertainty. This uncertainty was reflected in a precipitant decline in contracts and permits.

The commission discusses at some length the question of who gets the benefit of the exemption. The full and immediate benefit goes only to the man who builds his own home, who, if he keeps his costs within the prescribed limit, gets a final offset varying according to the time at which construction is commenced.

With each succeeding year, with exemption limited to January 1, 1932, the real value of the inducement diminishes. But with seven more years to run, even for dwellings on which construction is begun prior to April 1, 1924, tax exemption will effect a return of almost one-fourth of the present cost.

To a lesser degree the buyer of a family dwelling benefits by the exemption, but as yet the tenant derives no direct assistance from it. Rents have not been diminished by the provision of new housing. "Immediate benefits can reach the tenant only if the exemption is limited to apartments and dwellings in which not more than a moderate rental is charged, as determined by the local authorities."

But the city itself benefits perhaps more than any other interest concerned, through the increase in taxable values due to the stimulus to building. This increase is shown both in regard to land and to improvements.

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alities local poses lwellThe resumption of building has greatly increased the taxable value of the land, which is not included in the exemption. The tax assessment on land for all boroughs for 1922—covering the period March, 1921, to March, 1922, which coincides with the first year of tax exemption—was \$4,976,000,282.4 This represents an increase of about \$56,000,000 over land assessment for 1921, i. e., March, 1920, to March, 1921, just previous to tax exemption. The second year of tax exemption brought land assessments in the five boroughs up to \$5,024,991,202, representing an increase of \$108,990,920.

The increase in assessments on improvements is even more remarkable. In the second year of tax exemption the increase in assessments on improvements was \$785,009,922, while in the year before tax exemption, assessments on improvements showed a decrease of \$337,660,071. Tax exemption, as has been shown in the earlier part of the report, has stimulated the tremendous growth of residential building. * * *

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From the increased taxable value of the land, the city is already drawing benefits in larger taxes. From the tremendous increase of taxable values in improvements, the city will derive benefit in a few years. The immediate outlay which the city will have to make in added requirements for fire and police protection, for schools, for sewers and other services is relatively small. In the future the city will be repaid for any immediate outlay.

From the standpoint of revenue, the city must be considered in the character of a business man who ventures an immediate outlay to insure future income. Tax exemption is creating taxable values to an extent heretofore unknown in the history of any municipality.

State Aid for Workers' Dwellings in Queensland 1

THE registrar general of Queensland has recently published a statistical summary of Queensland's resources, activities, and developments, which gives some data concerning the progress of the movement to aid workers to obtain dwellings. Figures are given for five years, showing the increasing importance of the work. For the first and last years covered, some of the leading items are as follows:

	1918-19	1922-23
Number of applications during year	300	1, 121
Number of applications approved	234	754
Amount involved	2 £77, 629	£350, 865
Houses completed during year	252	609
Amount advanced during year	£92, 880	£277, 062
Amount of security	£139, 056	£399, 520
Amount of interest in arrears at end of year.	£770	£409

During the five years, 1,995 houses were completed, and while the number of applications approved was three times as great in 1922-23 as in 1918-19, the number awaiting consideration rose from 50 at the end of the first year to 255 at the end of the last, so that apparently the workers are much disposed to take advantage of the plan. Meanwhile, although the amount advanced during the year increased threefold within this period, the amount of interest in arrears at the end of 1922-23 was less by 46.9 per cent than at the end of 1918-19, which appears to indicate that the business side of the matter is not being neglected.

the cuty itself benefits perigaps more than any other interest

Thus in text; apparently intended to be \$4,916,000,282.

Australia (Queensland) Registrar General. A B C of Queensland Statistics, 1924, Brisbane, 1924. P. 163.

Pound at par=\$4.8665. Exchange rate varies.

INDUSTRIAL ACCIDENTS AND HYGIENE

Physical Examinations for Employees of Pennsylvania Railroad

THE Pennsylvania Railroad has issued a general notice urging each of the 211,000 workers in the employ of the company to undergo a complete physical examination at least once a year at the company's expense. Plans have been prepared by the voluntary relief department, under the direction of the superintendent of the system, by which the corps of physicians employed as medical examiners will be at the service of all employees for this purpose without any cost to them. These examinations, which are for the purpose of encouraging the preservation of health and increasing the average length of life, are entirely independent of the regulations requiring certain train-service employees and others to undergo periodical tests of sight, hearing, etc., to insure fitness for their duties.

The examinations may be made at any time but it is suggested that the birthday of each worker, or some time thereabouts, would be an appropriate occasion, serving as an annual reminder so that the examination would not be overlooked. The instructions point out that no matter how well a person may seem to be it is only the part of wisdom to be examined from time to time in order to detect minor defects or to discover the beginnings of more serious conditions in time to prevent their development.

Industrial Hygiene Clinic, New York City

THE organization of an industrial hygiene clinic in New York City under the auspices of the Reconstruction Hospital, the College of Physicians and Surgeons, and the Industrial Hygiene Division of the State Department of Labor is reported in the Weekly Bulletin of the Department of Health, New York City, April 26, 1924 (p. 123). The clinic is now open at the Reconstruction Hospital, which has been furnished with all the equipment necessary for the diagnois and treatment of industrial diseases. There are eminent specialists and consultants on the staff of the clinic. Plans are being made for carrying on various studies of occupational diseases and for publishing the results of the research work done by the staff. It is part of the plan, as the clinic develops, to train doctors and nurses for special service in industrial medicine and surgery.

Coal-mine Accidents in Pennsylvania, 1916 to 1922

THE coal-mine section of the Pennsylvania Compensation Rating and Inspection Bureau has compiled a statistical analysis of the coal-mine accidents in that State for the period 1916 to 1922, inclusive. The report is divided into three sections showing the fatalities in anthracite mining, the fatalities in bituminous coal

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1922-23 1, 121 754 50, 865 609 77, 062 19, 520 £409 le the

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mining and the compensation insurance experience during the sevenyear period. Each year one out of every five persons engaged in coal mining in Pennsylvania is injured by an accident occurring in connection with his employment, these injuries ranging from slight wounds requiring only a surgical dressing to those occasioning the loss of life. With a view to lessening the toll of accidents much attention is given in the report to analysis of the accidents by causes, as it is considered that detailed information in regard to each accident will show definitely how it might have been prevented.

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The fatality rate in the anthracite mines for the years 1916 to 1919 was 6.47 per million net tons and 3.43 per thousand full-time employees, while for the years 1920 to 1922 the rate was 5.82 and 3.04, respectively, a reduction of more than 10 per cent. In bituminous coal mines the fatality rates for the years 1916 to 1919 and 1920 to 1922 were 2.78 and 2.56 per million tons and 2.66 and 2.41 per thousand full-time employees, respectively, the reduction being approximately 9 per cent. In addition to the fatality rates measured by production and man-hours and to fatalities by causes, the report contains a comparison of the fatality rates in bituminous coal mines between insured and self-insured operators; a statement of the mining catastrophes for the years 1901 to 1922; insurance premiums and incurred compensation costs; average cost of fatalities; remarriage rates of widows; dependency distribution in relation to fatal accidents: ratio of weekly compensation to weekly wages; the economic loss from accidents in bituminous coal mining; and the severity distribution of injuries by cause of accident.

The following table shows the coal production, fatalities, and

fatality rates, 1916 to 1922, in Pennsylvania:

COAL PRODUCTION, FATALITIES, AND FATALITY RATES IN PENNSYLVANIA, 1916 TO 1922

clinio in New pork City no Franklik tobe Callida	la bours		SI ku	Numbe		er of 2,000-hour workers				Produc- tion per	
noise of Industry faciles	(net to		Production (net tons) Outside		Inside		Т	Total		man per annum (net tons)	
Anthracite. 1		7, 548, 0 54, 452, 0		306, 050 187, 740		00, 282 22, 158		096, 332 109, 898		527 950	
are eminent specialists has are being made for	Ineni E D	Ordin	ary fat	ry fatalities 1		Ordinary fatality rate					
naliding of home seasons.	Total num- ber of fatali-	Out-	In-	01890 (0,th)	Per 1,000,000		00 tons	Per 1,000 2,000- hour workers			
apput of strandor units	ties	side	side	Total	Out- side	In- side	Total	Out- side	In- side	Total	
Anthracite 1Bituminous 2	3, 620 3, 003	465 240	3, 025 2, 608	3, 490 2, 848	0. 81	5. 23 2. 47	6. 04	1. 52 1. 28	3. 83 2. 83	3. 18 2. 57	

¹ Fatalities in culm recovery excluded.

Coke excluded.
Catastrophes not included.

The report is divided into three sections showing

The following table shows the ordinary coal-mine fatalities by general cause of accident for the years 1916 to 1922:

ORDINARY COAL-MINE FATALITIES IN PENNSYLVANIA, 1916 TO 1922, BY GENERAL CAUSE OF ACCIDENT

minument of hitologon the same	Anth	Anthracite		Bituminous	
Cause of accident	Number of fatalities	Per cent of fatalities	Number of fatalities	Per cent of fatalities	
Machinery Boilers and machinery, including mining machines Shafts and hoisting apparatus Railroad cars and engines Mine haulage Electricity Explosives	131 82 62 638 60 389	3.8 2.4 1.8 18.4 1.7	97 63 45 759 110 93	3. 4 2. 2 1. 6 26. 7 3. 9 3. 3	
Gas, dust, and fires Falls of roof and coal Falling objects, not roof or coal Handling of materials Hand tools	319 1, 635 28 61 37	9, 2 47, 1 . 8 1, 7 1, 1	1, 552 11 30 11 5	1. 4 54. 6	
All causes	3, 471	100.0	2, 839	100. (

The following table shows the insured pay rolls, premiums, and losses in anthracite and bituminous mines in Pennsylvania for the years 1916 to 1922:

PAY ROLLS, PREMIUMS, AND LOSSES IN COAL MINING IN PENNSYLVANIA, 1916 TO 1922, BY POLICY YEARS

Policy year	Insured pay roll	Earned premiums	Incurred losses	Average rate (col. 3+ col. 2)	Pure premium (col. 4÷ col. 2)	Loss ratio (col. 4÷ col. 3)
1	2	3	4	5	6	7
Anthracite 1922 1921 1920 1919 1918	\$11, 648, 000 20, 172, 000 26, 554, 000 22, 690, 000 19, 094, 000	\$330, 625 613, 678 883, 395 691, 043 706, 221	\$164, 685 297, 276 388, 249 359, 938 370, 776	\$2.84 3.04 3.33 3.05 3.70	\$1. 42 1. 48 1. 46 1. 59 1. 94	0. 50 . 48 . 44 . 52 . 53
1918-1922	100, 158, 000	3, 224, 962	1, 580, 924	3, 22	1. 58	. 49
1917. 1916.	33, 735, 000 15, 436, 000	1, 104, 916 499, 000	670, 975 395, 655	3. 28 3. 23	1. 99 2. 56	. 61
1916-1922	149, 329, 000	4, 828, 878	2, 647, 554	3. 23	1. 77	. 55
Bituminous 1922	79, 034, 000 119, 669, 000 196, 447, 000 151, 943, 000	1, 636, 517 2, 711, 293 4, 957, 829 3, 666, 061	1, 059, 079 1, 668, 018 2, 257, 514 1, 675, 624	2. 07 2. 27 2. 52 2. 41	1. 34 1. 39 1. 15 1. 10	. 65 . 62 . 46 . 46
1918-1922	162, 117, 000	4, 513, 952	2, 221, 520	2.78	1. 37	. 49
1917	709, 210, 000 145, 753, 000 81, 982, 000	17, 485, 652 4, 013, 390 2, 455, 800	8, 881, 755 1, 869, 954 1, 209, 984	2. 47 2. 75 3. 00	1. 25 1. 28 1. 48	. 51
1916-1922	936, 945, 000	23, 954, 842	11, 961, 693	2.56	1, 28	. 50

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WORKMEN'S COMPENSATION AND SOCIAL INSURANCE

Workmen's Compensation: A review

THE late Dr. E. H. Downey left completed the manuscript of a handbook on the subject of workmen's compensation. As stated in the author's foreword, the purpose of the work it is not so much a descriptive analysis of existing compensation systems, nor a technical treatise on compensation law or compensation insurance, as a critique of standards for the indemnity of work injuries," it being the hope of the author that the work shall "furnish the matter needed for an informed opinion on the problem with which it deals." The writer's long actuarial and general insurance training and experience and his connection with the administration of various State laws provide an abundant practical background for the book.

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The report deals with the subjects of social costs of industrial injuries, scope of workmen's compensation, scale of benefits, administration, insurance, prevention of injuries and the American compensation system. Each chapter is followed by illustrative and informative notes with references in many cases to sources; while a bibliography of some 45 pages gives classified lists of treatises and discussions, thereby suggesting material for an exhaustive study of

the subject in its various phases.

One of the most interesting chapters is that relating to the subject of compensation insurance and containing Mr. Downey's judgment of the merits and demerits of the various forms of insurance in use. Obvious advantages attach to the monopolistic system, notably in respect of economy; but this system has not, in the author's opinion, demonstrated its superiority as regards other essentials, in particular the prompt and equitable adjustment of claims. Though a priori reasoning would suggest marked advantages in this regard, "in actual performance there is little to choose in these respects between State and private insurance." There is an undoubted advantage of security, and defective administration can be charged in large measure to insufficient appropriations and the combination of management and adjustment of claims in the same body. marked excessive cost of stock insurance should be reduced in view of the compulsory nature of the insurance business in many States. Failures among stock and mutual companies, which "have been numerous," should be avoided by the maintenance of adequate rates and adequate reserves. Emphasis is also placed upon proper classification and a thorough rate supervision by the proper authorities.

Administration is another important subject considered, the conclusions being reached that a well-organized and properly staffed compensation board or commission should have the complete and final determination in this field. "Adjudication itself is largely administrative," and "the board should retain supreme authority alike in the purely administrative and the quasi-judicial functions."

The subjects of the social cost of injuries and their prevention, as well as the matter of scope, under which heading the inclusion of

¹ Downey, E. H.: Workmen's Compensation. New York, The Macmillan Co., 1924. xxv, 223 pp.

industrial diseases on the same footing as industrial accidents is urged, are discussed from the well-known standpoint of the writer as a supporter of social insurance and of preventive rather than remedial measures.

Revision of Unemployment Insurance Law in Denmark 1

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NEW unemployment insurance law was passed in Denmark on March 4, 1924, which becomes effective April 1, 1924; the provisions governing employers' contributions, however, do not become effective until July 1, 1924. This law supersedes that of December 22, 1921.2

The new law retains the former maximum daily benefits of 4 kroner 3 for unemployed persons with dependents and 3.50 kroner for those without dependents.

The law of 1921 introduced the payment of benefits for partial unemployment, provided the time lost exceeded one-third of the regular working time. This provision has now been amended so that, in cases of part-time employment, benefits may be granted for all days not employed. It is stated that in actual practice this most likely will not be done, as the law specifies that the by-laws of the funds must be so drawn as to make the members financially interested in getting work instead of benefits. The change was made because of the difficulty of adjusting the benefits so as to arrive at a fair relation between part-time wages plus benefits, and benefits for total unemployment, without violating the provisions as to maximum daily benefits.

The 1921 law refused unemployment benefit to persons who, during the 2 years preceding, had not been employed for at least 10 months; in periods of exceptional unemployment, however, the Minister of the Interior could grant special exemption from this provision. Exemption may also be granted under the new law when the tradeunion to which the unemployed person belongs has had extraordinary unemployment in the past two years for at least 12 months, even though it may have ceased at that particular time. Previously the Minister of the Interior after a consultation with a committee of 16 members had the power to declare that exceptional unemployment existed. This power now rests with the so-called "C-Board," which has been increased by four more members of the Rigsdag. Strict regulations are made for determining when exceptional unemployment exists in a trade-union or its branches. Extraordinary unemployment is considered as existing in a trade when for each of the two preceding months unemployment has been half again or twice as much as that fixed as the "average normal unemployment" for the Certain exceptions are made to this rule.

The new law makes compulsory the payment of additional benefits to persons, members of authorized unemployment funds, whose right to ordinary benefits is exhausted. The law limits the amount of such relief, however, in cases where several members of the family live under the same roof, so that only the head of the family receives the full amount, the rest being paid only one-half. Also, within any 12 months the time during which these additional benefits may be paid

Data are from Meddelelser fra Socialraadets Sekretariat, March, 1924.
 See Monthly Labor Review, July, 1922, pp. 162-164.
 Krone at par-26.8 cents. Exchange rate varies.

shall not exceed the period for which ordinary benefit was granted. The Minister of the Interior may, however, extend this period for trade-unions or their branches in which one-half of the unemployed members have exhausted their regular unemployment benefit.

The use of the unemployment card is now abolished for regular benefits. Special control is, however, established over workers in time of exceptional unemployment either directly, through the unemployment funds themselves, or through the use of unemployment cards for those who receive additional benefits or who are not members of authorized unemployment funds. One part of this card, when work is begun, serves as a notice to stop extra benefits and the other, when the work ends, serves as a notice to resume the payment of unemployment benefits. Certain obligations are placed upon the employer with respect to reporting when a worker is hired, and penalties are imposed on both employer and worker for fraud in connection with the unemployment card system.

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Heretofore the relief work furnished by the funds has provided either only part-time employment or employment at less than regular rates. The new law expressly states that if there is a wage contract in force for the work in question the rates provided therein shall apply to the relief work and if no wage contract exists the current wages normally of the locality shall be paid, but to keep the worker interested in securing other work he must pay 15 per cent of this wage over to the central unemployment fund.

State and communal grants for unemployment insurance, which previously were 50 and 33½ per cent, respectively, of the total membership contributions, will be 35 per cent and 30 per cent, respectively, increasing from 54.4 per cent to about 60.6 per cent the sum the funds themselves must furnish from the total income from membership contributions and public grants.

The income from the central unemployment fund has been derived from three sources: The unemployment funds, the employers subject to compulsory accident insurance, and the State. The amount received from the unemployment funds, which was 5 per cent of the regular membership contributions, will be discontinued. The employers formerly contributed on an average 9 kroner per whole year worker insured, the rates ranging from a minimum of 3 kroner to a maximum of 15 kroner, according to the unemployment risk of the trade. This practice will be discontinued and a uniform rate established amounting, generally, to 5 kroner annually per insured worker, with 2 kroner annually in the case of agricultural and forestry workers and of apprentices during the first two years of apprenticeship. It is estimated that this change will result in a reduction of 2,000,000 kroner in the resources of the funds.

Heretofore the State has granted the central unemployment fund an annual subsidy amounting to one-third of the expenditures for the previous fiscal year for regular benefits, relief works, and courses for the unemployed. Under the new law the State, in addition, will contribute annually a sum equal to 10 per cent of the total regular membership contributions for the last fiscal year, in this way furnishing the fund with an annual grant even when no exceptional unemployment exists. The fund will have another source of income in the sum which workers employed at relief works must pay.

Danish Unemployment Funds, 1922-23 1

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HE report on the unemployment funds in Denmark for 1922-23 shows that during the year there were 66 funds in operation, the same as in the preceding year. The number of members decreased during the year from 262,000 to 253,000, of whom 214,000 were men and 39,000 were women. The decreases in 1920-21 and in 1921-22 were about 29,000 and 23,000, respectively. The greatest decreases were among agricultural workers, commercial and office employees, tailors, tobacco workers, and employees in the chemical industry.

The total income of the funds in 1922-23 was 29,800,000 kroner,² 15,700,000 kroner being membership contributions. largest income yet received and is due entirely to increases in the public grants given in proportion to contributions in 1921-22, the State grants having increased from 4,500,000 in the previous year to 9,000,000 kroner. The regular contributions have decreased in about the same proportion as the decrease in membership. During the fiscal year the membership contribution was 61 kroner per member.

Expenditures decreased from 32,700,000 kroner to 21,700,000 kroner, due entirely to the decrease in the relief account. Expenses for administration increased from 1,400,000 kroner to 1,500,000 kroner, or about 6 kroner per member. During the year the fund increased 8,100,000 kroner, or 31 kroner per member.

Up to March 31, 1923, the end of the fiscal year, the State had loaned to the funds a total of 13,610,676 kroner, but 2,074,373 kroner had been repaid, so that the amount due the State was 11,536,303 kroner.

There were over 12,000,000 working-days lost, or about two-thirds the number lost during the preceding year. The days of unemployment per member were 49 as against 65 for the previous year. The average daily unemployment dole was 3.05 kroner, slightly more than that for the previous year.

Social Insurance in Sweden a

THE first general application of social insurance in Sweden dates from the passing of the 1913 act on old-age and invalidity insurance, although the question was first raised in 1884 when a resolution introduced in the Riksdag resulted in the appointment of a commission of inquiry. As Swedish industry was only beginning to develop at that time and there was practically no organization of the workers, it was not until the organization of the Social-Democratic Party in 1889 and the formation of a national federation of trade-unions a few years later that the question of social insurance aroused general interest. The investigations undertaken by the commission of inquiry resulted, however, in the act of 1889 for the protection of workers against industrial risks and that of 1891 concerning sick benefit funds. In 1901 the workmen's compen-

¹Dansk Arbejdsgiverforening. Arbejdsgiveren [Copengagen], Jan. 4, 1924, p. 2.

²Krone at par equals 26.8 cents. Exchange rate varies.

^aData are from International Labor Review, February, 1924 (pp. 177-195); Monthly Labor Review, October, 1916 (pp. 61, 62); Sweden, Socialdepartementet, Pensionsstyrelsen, Allmänna pensionsförsäkringen år 1922, Stockholm, 1923; Foreningen för arbetarskydd, Arbetarskyddet, Stockholm, No. 6-7, 1922 and No. 1, 1924. For other articles on this subject see Monthly Labor Review, January, 1923, pp. 178, 179, and March, 1923, pp. 141, 142.

sation act was passed and a State insurance institute established with which employers who wished to do so might insure. A law passed in 1910 instituted a new method of regulating sick benefit funds and increased the subsidies paid to them by the State, and two years later further subsidies were granted by the State to cover the payment of maternity benefits.

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Old-Age and Invalidity Insurance

OLD-AGE and invalidity insurance was made compulsory by the law of June 30, 1913, which became effective January 1, 1914. This insurance covers nearly everyone, the only persons exempted being certain workers already entitled to pensions, such as civil serv. ants and their wives. Only about 7 per cent of the population between the ages of 16 and 67 is exempt from the payment of annual dues to the insurance fund. The amount of these dues is fixed according to a progressive scale, the annual premium ranging from 3 kronor 1 for the lowest salary grade to 33 kronor for those with an annual assessed income of 10,000 kronor and over. The income classification of employed persons is made by local assessment boards, the collections are made by the national and municipal tax collection services, and the municipalities are obliged to make up the amount of unpaid assessments. As the arrearage on the assessments for the entire country generally amounts to about 15 per cent, and to from 40 to 50 per cent in some towns and industrial districts, this necessitates heavy expenditure on the part of the municipalities. In 1914 the total contributions to the fund amounted to 14,600,000 kronor and in 1923 to 24,200,000 kronor.

Insured persons become eligible for a penson at the age of 67 or upon becoming permanently incapacitated for work. The original bill provided that the pensions of men should be 30 per cent and of women 24 per cent of the total amount paid in by them, but as the amount paid for invalidity was very low the law was amended in 1921 so that the pensioner is entitled to a sum per krona of contribution paid which varies with each five-year age group. Provision was also made for persons who were over 16 years of age at the time the act came into effect, through a special fund which is supported by annual subsidies granted by the State. Supplementary payments are allowed in cases of permanent disability if the income of the person pensioned is less than a certain sum fixed by law and also if there are minor children.

The annual amount of the individual pension at the age of 67 ranges from 51.30 kronor for men and 41.04 kronor for women, in the lowest income group, to 564.30 and 451.44 kronor, respectively, in the highest income group. The invalidity pension at the age of 30 is less than half of the old-age pension.

In 1922 the number of persons insured was, in round numbers, 3,431,500; 57,984 claims for pensions were made and 37,132 pensions were granted during the year. The costs of administration for the year were 1,161,949 kronor.

At the end of 1923, 280,000 pensions were in force. During the year, 36,620,000 kronor was paid out for pensions. Cash on hand at the end of the year amounted to about 233,000,000 kronor.

¹Krona at par=26.8 cents. Exchange rate varies.

The total amount of premiums paid into the insurance fund for the 10-year period, 1914 to 1923, was 174,550,000 kronor. During this time 458,000 pensions were granted, of which 190,000 were for men and 268,000 for women. About 190,270,000 kronor has been disbursed for pensions since the system has been in operation.

The pensions department has carried on sickness prevention work since 1915, the sum of 650,000 kronor being appropriated annually for this work. Hospital and sanitarium treatment is provided and disabled persons receive vocational training. About 2,000 receive

treatment of various kinds each year.

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A voluntary insurance system allows any insured person to increase his pension by making additional payments up to a maximum of 100 kronor a year. In order to encourage the taking out of additional insurance the State provides a sum equal to one-eighth of the premium up to a maximum of 3.75 kronor per insured person per year. The number taking advantage of the provision for voluntary insurance is not large, although it has increased somewhat since 1919 when the regulations were made somewhat less rigid than had formerly been the case.

Sickness and Maternity Insurance

SICK benefit funds in Sweden are private organizations, but are regulated by and receive subsidies from the State through the act of July 4, 1910, and the decrees of June 30, 1913, and October One of the divisions of the social board registers and supervises the sick benefit funds and distributes the Government subsidies. Death benefits may be paid in addition to sickness and maternity benefits, and in case of sickness members receive either hospital, medical, and pharmaceutical treatment or a cash payment varying from 0.90 to 8 kronor. Benefits are payable for at least 90 days in the year. The cash payment is not payable unless the sickness lasts more than 3 days. The death benefit may not exceed 500 kronor. The assessments of members must be fixed in advance but additional payments may be required if the receipts of the fund do not cover the expenditures. No one is allowed to hold membership in more than one ordinary fund but there are supplementary funds which pay benefits to members of ordinary funds who have exhausted their rights to benefits from this source.

There has been a steady development in the number of funds and in their membership. In 1892 there were 221 funds with 24,735 members and in 1922 there were 1,270 ordinary funds with a membership of 726,268 and 32 supplementary funds with 79,736 members. Included in the membership at the end of 1921 were 20,000 persons insured only against death and 60,000 who had taken advantage of a temporary clause allowing them to belong to more than one fund. Altogether there were 641,000 persons or 15 per cent of the population above the age of 15 insured against sickness, one-third of whom were women. The total assets of the funds at the end of 1921 were 22,000,000 kronor, and the total expenditure of the funds

for that year was 13,955,000 kronor.

The number of days for which sick benefit was paid was 5,300,000 in 1920, 5,100,000 in 1921, and 6,200,000 in 1922, and the total number of days for which maternity benefit was paid in these years

was 289,000, 287,000, and 274,000, respectively. In 1921 there was paid out 9,695,000 kronor in cash payments, 280,000 kronor for medical treatment, 93,000 kronor for medicines, 296,000 kronor for

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maternity benefit, and 898,000 kronor in death benefits.

A plan for compulsory sickness and maternity insurance was drawn up by the social insurance commission in 1919. The Ministry of Social Affairs amended the plan of the commission considerably, as it was considered difficult of application, and the amended plan has been submitted to a special commission for consideration in connection with a plan for the establishment of a uniform system of social insurance.

Industrial Accident Insurance

THE payment of compensation for industrial accidents is regulated by the laws of 1901 and 1916, amended in 1919 and 1922, which cover practically all wage earners whose annual earnings do not exceed 9,000 kronor. Compensation begins on the thirty-sixth day after the occurrence of the accident. The benefits provided consist of medical and hospital care, drugs and surgical supplies, and cash benefits not to exceed two-thirds of the wages of the injured. Pensions are provided for permanent disability. In the event of death a funeral benefit of one-tenth of the annual earnings of the deceased is paid, but not to exceed 100 kronor, and to dependents, according to their number, certain graded amounts.

The risk of the employer may be insured either with the State

Insurance Institute or with a private insurance company.

According to advance figures for 1923 concerning the activities of the State Insurance Institute in Sweden, under the 1916 accident insurance law 54,900 accidents have been reported to the institute, of which 29,400 involved workers insured with the State Insurance Institute and 25,500 workers insured with mutual insurance companies. Insurance premiums paid under the same law amounted to 6,100,000 kronor. The number of listed employers was 343,000, of whom 308,000 are insured with the State Insurance Institute. Exclusive of compensation paid to State employees, the institute has paid out under the 1916 law 4,155,346 kronor in compensation for industrial accidents, and under the 1901 law 440,449 kronor for industrial accidents and 715,890 kronor for injuries received in military service.

Unemployment Insurance

UNEMPLOYMENT prevention and relief by public authorities has been limited to the organization of public employment offices and relief works and to the payment of special unemployment benefit.² The only system of unemployment insurance, however, is that carried by the trade-unions. The trade-union membership is approximately 200,000, and the unemployment benefits paid by them in 1920 amounted to 700,000 kronor and in 1921 to 8,000,000 kronor, the large amount paid in the latter year being due to the severe economic depression.

An unemployment bill which is under consideration at present provides for a close coordination between the public employment offices and the private societies paying unemployment benefits. In

See Monthy Labor Review, May, 1918, pp. 221, 222.

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ent ent In order to secure payment of unemployment benefits every unemployed person will have to report at the employment exchange each day, and will receive his allowance only if no work is available. Members will have to pay fixed contributions and the Government will grant a subsidy which it is estimated will amount to about 2,000,000 kronor per year. The benefit paid to insured persons who are involuntarily unemployed may not exceed half their daily earnings and the maximum benefit will be 5 kronor. In order to receive unemployment benefit unemployment must last at least 6 days out of every 14, and in seasonal industries, 12 days out of 28. No benefits will be paid to persons with less than one year's membership in a fund, nor will benefits be paid if unemployment results from a strike or lockout.

Conclusion

WHILE social insurance in Sweden is established on a broad basis covering not a single class but as far as possible the whole population, the system has presented many difficulties of administration. It is sometimes considered that because of centralization of administration it is not sufficiently elastic, there are also objections to the method of calculating benefits, and there is too great a difference between the benefits paid to workers injured in industrial accidents and those paid to aged persons or to workers whose disability is not a result of their employment. While the present economic situation is not favorable to a solution of these problems "there is nevertheless good reason to hope for further improvements, since social insurance may be regarded not only as a measure of justice, but as a guaranty of social peace."

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Basis of Rent Control Legislation

IN AN article in the Monthly Labor Review of May, 1921 (pages 1-9), on "Legal aspects of the housing problem," the rent laws of New York and the District of Columbia were discussed, legisla-

tion of other States also receiving brief mention.

In its consideration of the law in effect in the District of Columbia, the article reviewed briefly a decision by the Supreme Court (Block v. Hirsh, 256 U. S. 135, 41 Sup. Ct. 458), in which the validity of the act was sustained by a divided court, thus reversing the decision of The basis on the Court of Appeals of the District of Columbia. which the act was upheld was that there were "elements of a public interest justifying some degree of public control." The statute declared that there was an emergency, arising from the demand for homes and dwellings by persons called into the service of the Federal Government during the war, the population of the city of Washington being rapidly and largely increased, while at the same time building operations were practically suspended. The majority ruled that in view of the "unquestionable embarrassment to the Government and the danger of the public health in the existing condition of things," there was warrant for action by Congress such as was taken, saying that "circumstances may so change in time or so differ in space as to clothe with such an interest [public] what at other times or in other places would be a matter of purely private concern."

On April 21, 1924, a second case came to the Supreme Court, involving the continued operation of the rent control act, which was originally limited to expire within two years from its enactment in October, 1919. However, with amendments, it was extended by an act of August 24, 1921, until May 22, 1922, and subsequently until May 22, 1924. The rent commission had fixed rates for an apartment in the city of Washington, cutting down the rents charged by the owners, and from this ruling the owners appealed. The lower and appellate courts of the District had rested upon the decision of the Supreme Court in the case Block v. Hirsh, and dismissed the bill brought by the owners, assuming the continuing validity of the act. The appellants raised the contention that "the emergency that justified interference with ordinarily existing private rights in 1919 had come to an end in 1922," so that the constitutional warrant for such interfer-

ence no longer existed.

It is interesting to note that the opinion sustaining the law was delivered by Mr. Justice Holmes, and in the present case the same justice, the full court concurring, reversed the courts below, not on the ground that the earlier opinion was incorrect and should not be followed, but that "a law depending upon the existence of an emergency or other certain state of facts to uphold it may cease to operate if the emergency ceases or facts change even though valid when passed"; and in view of the lack of evidence submitted as to the present existence or nonexistence of the emergency recognized at the earlier date it was desirable to remit the case for an accurate and careful inquiry into the facts as they now exist. "The evidence should be preserved so that if necessary it can be considered by this

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the demand for employees by the Government had considerably diminished, and also recognized that the extensive activity in building had modified conditions. "If about all that remains of war conditions is the increased cost of living that is not in itself a justification of the act. Without going beyond the limits of judicial knowledge, we can say at least that the plaintiff's allegations can not be declared offhand to be unmaintainable, and that it is not impossible that a full development of the facts will show them to be true. In that case the operation of the statute would be at an end."

The case was therefore remitted, as already stated, for the procuring of evidence in the field indicated (The Chastleton Corporation et al. v. A. Leftwich Sinclair et al., 44 Sup. Ct.). On its further consideration of the evidence, the court below reached the conclusion that the emergency had ceased, and on May 19 enjoined the rent board from proceeding further in the case. In the meantime, Congress took action, extending the law another year, the President

approving the act on May 17.

Chinese Restaurant Keeper as "Merchant"

TIS well known that immigration of Chinese laborers is prohibited, but that merchants are permitted to enter, as are students and certain others. In a case recently decided by the Supreme Court of the District of Columbia a ruling was necessary as to the meaning of the term "merchant." Mak Fou Cho petitioned for a determination of status as a merchant in order that he might have the right to bring his minor son from China to this country. Evidence was submitted by the petitioner and also developed by the Immigration Service, under the rules issued to carry out the Chinese exclusion laws. The Department of Labor found from this evidence that he had been, for at least one year prior to his application, bookkeeper and cashier of a Chinese restuarant, owning an interest therein, and that he performed no manual labor in connection with the conduct of the business or otherwise. Upon these facts the department decided that he had no real part in the managerial or buying and selling part of the business and that he was not a merchant. His attorneys obtained a reconsideration of the case, whereupon it was referred for opinion to the Office of the Solicitor, who is the law officer of the department. That office investigated the applicable part of the act of Congress of November 3, 1893, which is as follows:

The term "merchant," as employed herein and in the acts of which this is amendatory, shall have the following meaning and none other: A merchant is a person engaged in buying and selling merchandise, at a fixed place of business, which business is conducted in his name and who during the time he claims to be engaged as a merchant, does not engage in the performance of any manual labor, except such as is necessary in the conduct of his business as such merchant.

It found that up to 1915 the various departments which had the duty of administering the Chinese exclusion laws had treated a restaurant keeper as a laborer. This view had also been upheld in the few court decisions on the point. In the Department of Labor, however, that view was modified in 1915 by reason of the decision of the Circuit Court of Appeals of the Second Circuit which referred to a Chinese restaurant keeper, named Lee Chee, as a merchant (224)

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Fed. 447). There was also another unreported decision of a United States District Court holding that "while a Chinese could own a restaurant and yet be a laborer, it was obvious that a side of the restaurant business was mercantile, as the purchasing of supplies and

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the selling of the cooked food."

The Solicitor's office discovered that the Chinese, Lee Chee, referred to by the Circuit Court as a "merchant" was, according to the records, a keeper of a Chinese grocery, from which fact it was urged that the reference by the court to him as a restaurant keeper was obviously an unintentional misstatement of fact, and that the decision, therefore, was not really in point upon the status of a restaurant keeper. It was also brought out by that office that since these decisions the same Circuit Court of Appeals had held that under the bankruptcy laws a restaurant was not a mercantile business because the "dishes" of food served in a restaurant would be called by no one "merchandise," and that that case had been affirmed by the United States Supreme Court. The Solicitor's office therefore advised the department that a restaurant was not a mercantile establishment and that the department would be justified in holding that Mak Fou Cho is not a merchant under the Chinese exclusion laws. The department adopted the opinion and again refused to grant Mak Fou Cho a mercantile status.

He thereupon petitioned the Supreme Court of the District of Columbia to issue a writ of mandamus to direct the Secretary of Labor as respondent, to make favorable indorsement of the applica-

tion for mercantile status.

The court disposed of the case by considering a few points. It has been ruled by the courts that it is not necessary that a partnership name should appear in the firm title but it must appear in the books and partnership articles. The petitioner therefore met the requirements of the statute except as to buying and selling merchandise, so that "if the business of running a restaurant were concededly mercantile there would be no contesting the petitioner's right to claim a mercantile status as defined in the act." While the finding of the department was that the petitioner takes no part in the buying and selling, or of the management of the business, the department does not concede that the business of running a restaurant is "Had the respondent found that the restaurant business is not mercantile and that one carrying it on in any capacity is not engaged in 'buying and selling' his decision would not have been arbitrary or capricious, for courts have differed as to that in construing the exclusion laws, and the Supreme Court in construing the bankruptcy laws has held that one engaged in the restaurant business is not engaged in a trading or mercantile pursuit. Nollman & Co. v. Wentworth Lunch Co., 217 U. S. 591, following Toxaway Hotel Co. v. Smathers, 216 U. S. 439, where, speaking of articles of food, the court says: 'Such articles are not bought to be sold, nor are they sold again as in ordinary commerce.' In the Toxaway case it was held also that running a grocery store in connection with the hotel did not make the hotel business mercantile." Following this ruling the Supreme Court of the District of Columbia held that though the petitioner had sold cigars and cigarettes, that did not make the restaurant business mercantile. "So considered the case

is that the respondent took jurisdiction of the petitioner's application, heard and weighed the testimony on a question of fact and found under the law that the petitioner was not entitled to what he asked for." In Interstate Commerce Commission v. United States ex rel Waste Merchants Association, 260 U.S. 32, it is stated that "mandamus can not be had to compel a particular exercise of judgment or discretion," citing Riverside Oil Co. v. Hitchcock, 190 U. S. 316. Holding that the petitioner therefore had no statutory right to what he asked for, the court dismissed the petition for a writ against the Secretary of Labor. (United States ex rel Mak Fou Cho v. James J. Davis, Secretary of Labor. Decision rendered April 21, 1924.)

The decision is of importance in Chinese immigration, for the reason that it is as the wives and minor children of the managing members of Chinese restaurants that a great number of alien Chinese

have been gaining admission since 1915.

Limiting Fees of Employment Agencies, California

THE Legislature of California was apparently of the opinion that judicial opinion is subject to change, and that legislation once declared unconstitutional may subsequently receive the approval of the courts. Chapter 414, acts of 1923, was an amendment to the employment agency law of the State, limiting the fee that might be charged by such agencies for their services, penalizing any charges in excess of such restriction. This was just 20 years later than the enactment of a similarly restrictive law in the same field, which was declared unconstitutional the next year (1904) as an unwarranted infringement on the right of citizens to contract. (Ex.

parte Dickey, 144 Cal. 234. 77 Pac. 924.) In the present case the court reverted to its earlier decision, quoting therefrom at some length, supporting itself also by citations from the decision of the Supreme Court in the case Adkins v. Children's Hospital, 261 U.S. 525, 43 Sup. Ct. 394. In its former opinion the court had stated that Dickey was "engaged in a harmless and beneficial business," a part of his property being the services rendered in obtaining employment for those seeking it. "It is not compulsory upon anyone to employ him, and whoso seeks to avail himself of his services is at liberty to reject them if the terms of the contract for compensation are not satisfactory to him." This common right of contract was arbitrarily interfered with by the act in question, depriving the petitioner of his property, restricting his

activities by a law not applicable to other business men.

Of the Adkins case it was said that it "made an exhaustive review of the authorities touching the right to contract about one's affairs, including the right to make contracts of employment, and held that such a right was a part of the liberty of the individual which is protected by the fifth amendment to the Constitution of the United States." Holding that the same arguments are applicable here, and that the decision of the "highest court of the country" was conclusive upon it, "even if we found ourselves without a precedent within our own jurisdiction," the court declared the statute invalid and ordered the prisoner discharged. (Ex. parte Smith, 223 Pac.

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LABOR ORGANIZATIONS

Annual Congress of Japanese Federation of Labor 1

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THE thirteenth annual congress of the Japanese Federation of Labor was held in Tokyo, February 10 to 12. Mr. Bunji Suzuki, the veteran labor leader of Japan, was reelected president of the federation.

The aims of the labor movement and the attitude of the federation towards the International Labor Organization are defined in the fol-

lowing resolution adopted unanimously by the congress.

The labor movement in our country stands at a turning point. We believe it is of special importance and significance, from the point of view of the history not only of the General Federation of Japanese Labor but also of the whole labor movement of Japan, that the present declaration should be made.

Capitalism in Japan, pushed by the circumstances of the world in advance of its normal development, took prematurely the form of imperialism, which is the last stage of capitalism, without passing through the stage of liberalism. Consequently, it became deeply tinged with absolutism, and, as a result, there

are in Japan great obstacles to the free progress of the proletariat.

Moreover, while on the one hand the spirit of the class struggle throughout the world, which has reached its highest point, has perhaps too rapidly engendered the aspirations of a part of the Japanese labor movement, gradually awakening since the great European War, it has failed on the other hand to create a clear understanding of the mission and duty of trade-unions in the effort for the emancipation of the workers. Consequently, it has been difficult for the movement of the proletariat in Japan to become a mass movement; and the movement of the few, ardently aspiring to high ideals, has necessarily taken a somewhat doctrinaire and unconciliatory form.

We believe that, hitherto, such a development of the labor movement of this country was inevitable, in view of the abnormal development of capitalism. But it would be a great and culpable error if we continued in the future to take the same attitude as in the past. We are faced with the necessity of making our policy more realistic and more positive than before, having regard to the tendency of capitalism in recent years and to the increasing power of the work-

ers in this country.

The labor movement of Japan has reached a stage where it should transform itself from a minority movement into a movement of the masses. The negative attitude towards policies of social reform must be replaced by a positive attitude

and an effort to utilize such policies.

For instance, though we have, of course, no expectation that the complete emancipation of the people can be obtained through a bourgeois parliament, we must nevertheless endeavor to acquire such partial profit as is possible by exercising effectively the right to vote, after the introduction of universal manhood suffrage. We must endeavor to accelerate the awakening among the people of an interest in politics.

Further, with regard to the International Labor Conference, we must deliberately consider our policy toward it, and endeavor to further the progress

of the trade-union movement in this country.

¹ International Labor Office: Industrial and Labor Information, Geneva, Mar. 31, 1924, pp. 38, 39; The Trans-Pacific, Tokyo, Apr. 5, 1924, p. 4.

COOPERATION

Cooperative Marketing of Fruits, Livestock, and Grain in the United States 1

CURRENT issues of Agricultural Cooperation, published by the United States Bureau of Agricultural Economics contain the results of the bureau's tabulation of reports from farmers' cooperative organizations of various types.

The following table compiled from the above periodical, shows figures of membership and business of the various types of marketing

organizations in 1923:

MEMBERSHIP AND BUSINESS OF FARMERS' MARKETING ASSOCIATIONS, 1923

all and another survivations	Total	Memb	pership	Business	
Commodity marketed	number	Number reporting	Members	Number reporting	Amount
Fruits and vegetables	1, 103 25 3, 029	629 2, 358	96, 329 333, 560	25 1,848	\$221, 188, 977 193, 282, 835 349, 199, 000

The bureau points out that inasmuch as reports have not yet been received from all the fruit and vegetable marketing associations, the total business actually done by organizations of this type is much greater than is shown in the above table, probably being "in excess of \$250,000,000."

As would be expected, California led all the States in number of societies marketing fruits and vegetables (236), in membership of these societies (35,385), and in amount of their sales (\$65,337,000). Illinois led in the marketing of grain, with 392 societies, 39,318

members, and sales of \$52,445,000.

Of the associations marketing fruits and vegetables, 26.9 per cent of those reporting were located in the Pacific States. The West North Central States led in the number of grain-marketing associations, having 61.90 per cent of all those reporting and making 58.7 per cent of the total sales reported.

The table following shows the growth of farmers' cooperative business organizations as indicated by reports to the United States

Bureau of Agricultural Economics.

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¹ Data are from United States Department of Agriculture, Bureau of Agricultural Economics, Producercontrolled grain-marketing organizations in the United States, preliminary report (mimeographed), March, [524; and Agricultural Cooperation, Washington, D. C., issues of Feb. 11 and 25, Mar. 24, and Apr. 21, 1924.

AMOUNT OF BUSINESS OF FARMERS' COOPERATIVE BUSINESS ORGANIZATIONS, 1912 TO 1923

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	Number of	Business	lone	
Year	associations reporting	Total amount	Average per association	
1912	889	\$123, 215, 000	\$138, 600	
1913 1914	3, 099 2, 877	310, 313, 000 274, 140, 000	100, 100 95, 200	
1915	504	52, 722, 000	104, 600	
1916	939 859	114, 601, 000 192, 136, 000	122, 000 223, 600	
1921	7,374	1, 256, 214, 000	170, 300	
1922	4, 103	885, 183, 000	215, 700	
1923	10, 160	1 2, 200, 000, 000		

¹ Estimated on basis of average per society in 1922.

Eleventh International Cooperative Congress, 1924

HENT, Belgium, will be the scene of an international cooperative and social welfare exhibition to be held from June 15 to September 15, 1924. The various cooperative movements of the world will be represented by exhibits showing cooperative productions, etc., and the aim will be to "concentrate all forms of cooperative activity without regard to religious, philosophical, or political opinions. It will be a mirror which will faithfully reflect the cooperative movements of all the countries with the specific characteristics which distinguish them from one another."

The exhibition of cooperation will deal with five phases of the movement: History, organization, and propaganda; consumers' cooperation; industrial productive cooperation; agricultural cooperation for purchase, sale, and production; and cooperative credit and insurance. The social welfare exhibit will cover cooperative, public, and private work along this line.

The following congresses will be held during the exhibition: The eleventh International Cooperative Congress; meeting of International Labor Bureau; the International Congress of Technical Instruction; Fine Arts International Congress; International Cooperative Insurance Congress; and Belgian Cooperative Congress.

Creation of International Institute on Cooperation 1

PRELIMINARY plans for the formation of the International Institute on Cooperation were drawn up at a meeting held in Washington, D. C., on February 11, 1924, of representatives of a number of farmers' cooperative organizations and the United States Department of Agriculture. "The institute is to be in the nature of a school where employees and members of cooperative organizations and students and instructors of agricultural colleges may study all phases of the various kinds of cooperation, including both organizations for the purchase and sale of commodities, mutual farmer insurance companies, and the like."

¹ State and Federal Marketing Activities, Washington, D. C., issues of Feb. 13, and Apr. 16, 1924; and Agricultural Cooperation, Washington, D. C., Apr. 21, 1924.

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The first school will be held in August or September, 1925. A preiminary conference will be held in Cleveland in August of this year, when the scope and problems of cooperation will be considered. committees have been appointed on finance, scope of courses to be given, and membership.

It is expected that "the larger and more important associations in all the principal countries will eventually become sustaining members of the institute."

Cooperation in Foreign Countries

Bulgaria

THE first official statistics of the Bulgarian cooperative movement have recently been published by the General Statistical Department of Bulgaria, and the report is summarized in the March 17, 1924, issue of Industrial and Labor Information (Geneva). The report covers 1,718 of the 2,940 cooperative societies established and registered prior to October 15, 1921. The statistics cover the year 1920. The following table shows the number and membership of the various types of societies:

NUMBER AND MEMBERSHIP OF BULGARIAN COOPERATIVE SOCIETIES, 1920, BY

and the boundary of the state o	Societies	Number of socie-	
Type of society	Number	Mem- bership	ties affiliated with central cooperative organizations
Credit societies Consumers' and building societies Purchase, sale, and manufacturing societies Insurance societies Societies for joint use of machinery, etc Workers' productive societies Other types of societies Central unions	977 409 146 32 48 54 39	119, 352 120, 519 37, 053 64, 149 2, 802 587 3, 791 50, 070	171 46 421 1,073
Total	1,718	398, 323	1,712

The statement below shows the resources of the societies in 1920:

	Leva 1
Share capital	114, 796, 230
Reserve funds	38, 241, 544
Other funds	15, 790, 139
Savings deposits	165, 556, 585
Net surplus savings (1,335 societies reporting)	
Net losses (197 societies reporting)	1, 189, 651

In order to assist the further extension of the cooperative movement, the Bulgarian Government has decided to open a Higher School of Cooperation. According to the regulations published in the "Official Journal," the object of the school, which is to be opened

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¹ Leva at par=19.3 cents. Exchange rate varies.

shortly at Sofia, will be to train a competent staff for the direction of the various cooperative undertakings in the country. It will also exercise a general supervision over the organization of cooperative

The administrative board of the school will include two representatives of the Ministry of Agriculture, two representatives of the Agricultural Bank, and two of the faculty of agriculture, with one representative of each of the following organizations: The Central Cooperative Bank, the General Union of Agricultural Cooperative Societies, the Union of Peoples' Banks, the Agricultural Society, and the Union of Consumers' and Producers' Cooperative Societies.

One-half of the expenditure involved is to be borne by the Ministry of Agricul-

ture, and the other half by the Agricultural Bank and the Central Cooperative

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The educational course is to be of two years' duration. It will cover, in addition to cooperation in all its branches, agriculture, accountancy, cattle raising, foreign languages, etc. Practical work will be undertaken in agricultural undertakings and in cooperative societies. The school will be equal in grade to the special higher schools of the country. As from its second year of existence, a certain number of places in the school will be reserved for women students.

Czechoslovakia 1

AT THE end of 1922 there were in affiliation with the Central Union of Czechoslovak Workers' Cooperative Productive Societies 216 societies of which 74 were societies manufacturing clothing and boots and shoes, 33 were carpenters' and joiners' societies, 36 were building and glass-making societies, 11 were paper factories and printing establishments, 21 were metallurgical societies, 29 were associations manufacturing foodstuffs, 10 were theatrical and motionpicture societies, and 2 were unclassified. The operations for 1922 of the 184 societies furnishing reports were as follows:

Number of societies reporting	184 13, 082 4, 106
	Kroner 2
Share capital Amount of business Surplus savings for year	10, 000, 000 173, 562, 729 839, 777

Germany

CONSULAR report, dated February. 13, 1924, received by this Bureau contains figures compiled by the German Statistical Office showing the number of societies of each type in operation at the end of the years 1922 and 1923. These are given in the table below; for the purposes of comparison, figures for 1914 and 1919 are also given:

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International Cooperative Bulletin, London, March, 1924, p. 93
 Krone at par=20.3 cents. Exchange rate varies.

NUMBER OF REGISTERED COOPERATIVE SOCIETIES IN GERMANY AT END OF EACH YEAR, 1914, 1919, 1922, AND 1923

Type of society	Number of societies in operation at end of—					
2 yet of society	1914 1	1919 1	1922	1923		
Credit societies	19, 203	20, 199	20, 812	20, 884		
Industrial.	436	1, 353	2, 160	2, 188		
Agricultural	2, 429	2, 935	4, 389	4, 593		
Societies for the purchase of merchandise	317	648	1, 377	1, 472		
Industrial	348	339	371	371		
Agricultural	1,909	2, 404	6, 457	6, 781		
Societies for the purchase of machinery and tools	17	13	23	21		
Siorage societies: Industrial	123	128	140	141		
Agricultural	512	637	979	141 976		
Raw-materials and storage societies:	714	001	9/9	910		
Industrial	154	233	331	313		
Agricultural	24	40	45	47		
Workers' productive societies:		-				
Industrial	428	1, 106	1, 211	1, 126		
Agricultural	4,001	4,094	3, 886	3, 999		
Stock breeding and grazing societies	486	588	913	926		
Consumers' societies	2, 340	2, 313	2, 492	2, 594		
Housing societies.	1, 346	1,485	3, 311	3, 422		
Other building societies.	128	135	201	210		
All other types of societies	378	406	923	1, 034		
Total	34, 579	39, 056	50, 021	51, 098		

Data are from German Statistical Yearbook for 1920.

Great Britain

THE growth of the Cooperative Insurance Society since being taken over by the English and Scottish Cooperative Wholesale Societies in 1913 is briefly sketched in an article in The Producer (Manchester, England) for March, 1924 (p. 135). Comparative figures for 1913 and 1923 are given in the statement below:

Total assets	,	£3, 000, 000
Premium income: Industrial insurance	4, 096	758, 639
Life insurance	139, 774	885, 313
Fire insurance	40, 905	159, 009
Accident insurance	271	12, 038
General insurance	10, 949	163, 050
Employers' liability insurance	28, 158	74, 711
Total	224, 153	2, 052, 760
Amount for which insured:		
Industrial policies	28, 068	10, 142, 168
Life policies	117, 713	1, 619, 481

In 1913 the society had 208 employees; at the end of 1923 this number had grown to 2,600.

It is stated that only one other industrial (noncooperative) company in Great Britain has shown "a larger relative increase in funds."

India

THE International Review of Agricultural Economics (Rome) for January-March, 1924, contains (pp. 43-61) an article on agricultural cooperation in India, by the registrar of cooperative societies of the Punjab, of which the following is a summary.

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The cooperative movement was introduced into India as a measure of famine prevention by the Government, which hoped that through the system of cooperative credit and the consequent inculcation of thrift "the economic position of the masses would be so strengthened that they would be able to resist the periodic catastrophes which, in less happy days, led inevitably to famine, starvation, and death." The result is that the Indian cooperative movement is "largely the

product of official stimulus and official energy."

The first cooperative legislation was the act of 1904, which authorized the formation of credit societies and provided for the appointment in each of the major Provinces of a registrar whose duties were the organization and supervision of cooperative credit societies. The original act was replaced by another, in 1912, closely resembling the English friendly societies act. In two particulars, however, the Indian act is unlike that of other countries. The registrar is empowered (1) to refuse registration under the act until he is satisfied that the projected society has a fair chance of being successful and (2) to cancel registration and thus force any doubtful society into liquidation. "Both these powers are designed and are used to insure a high quality of work within the society, and to build up public confidence in cooperative credit."

Some 47,300 primary credit societies are at present registered under the act, of which 45,000 are rural banks with unlimited liability, on the Raiffeisen plan. These may be classified into those with and

without "shares."

In the "share" society, in order to accumulate capital quickly, each member subscribes a small sum each year for 10 years, at the end of which time the sum so accumulated may be (1) returned to the members; (2) converted into permanent shares of specified value, any surplus above this amount being returned; or (3) the whole sum converted into nonreturnable shares. As the article under review points out, the term, "shares" is a misnomer, since "they are in no sense a measure of a member's stake in the society; they do not affect his unlimited liability; they are not shares in the joint-stock sense. On the other hand they differ from compulsory deposits in that on liquidation they rank after deposits, so that a deposit would be repaid, if need arose, from shares before any call would be made on the unlimited liability. They are best regarded as a small paid-up portion of the unlimited liability." The accumulated profits may be converted into nonreturnable shares in place of or in addition to the other shares, or "kept indivisible forever"; at least one-fourth must be kept as indivisible reserve. "Thus after 10 years many share societies become pure Raiffeisen; others distribute profits up to a maximum of 9 or 10 per cent in the twelfth and succeeding years; others retain shares with indivisible profits. Generally speaking, Mohammedan societies prefer indivisible profits, while Hindu and Sikh societies incline to dividends in the twelfth year." Where the "share" system does not exist, the societies follow the pure Raiffeisen model, with unlimited liability and indivisible profits.

The actual working of the societies is stated to be much the same throughout the country. For each member a maximum of credit is fixed which can not be exceeded without the consent of the general

meeting.

l'anjab, of which the following is a summary.

Within these limits, the committee accords sanction to loans to members; these loans, in the peculiar circumstances of India, can not be confined to productive purposes, but the essential of "necessity" is usually insisted upon, that easure rough ion of is to say a member is allowed to borrow for expenditure which the committee thened regards as necessary in view of the ceremonies the member has to perform. A persistent attempt is being made with promising results to impose a limit to expenditure on marriages, funerals, and other objects which religion or custom ich, in eath." demands; but when it is remembered that extravagance upon marriages is ly the regarded by many observers as the most important cause of debt, the difficulty of controlling this item will be appreciated. The great difficulty facing all attempts to diminish expenditure on these ceremonies is the existence of the uthormoney lender always ready and anxious to lend what the society refuses to advance. * * * The chief objects for which loans are advanced are repaypoints were ment of old debts (everywhere a large item), marriages, seed, fodder and cattle, and the payment of land revenue. This last item represents chiefly the assistance afforded to the cultivators to hold up their produce for better prices while still enabling them to meet the Government demand. Less important objects The ng the

land purchase, and purchase of agricultural implements.

It is stated that, on the whole, the movement is making steady progress. During the past five years the number of agricultural credit societies has increased from 23,000 to 45,000, membership from 851,000 to 1,516,000, and working capital from 68,900,000 to

numerically are land redemption, land improvement, sinking of wells, rent,

133,200,000 rupees.³

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Peculiar conditions make the progress of cooperation difficult: Illiteracy; the extreme dependence of agriculture upon the monsoon and its vagaries, which prevents regular repayment; the absence, due to religious beliefs, of animal husbandry and of many subsidiary occupations which add to the family income in Europe; the fact that caste feeling prevents all except those of low caste from keeping poultry and that sericulture and rural industries are also looked down upon; the low standard of living; and the customs which "involve expenditure out of all proportion to the means of the cultivators and which are readily catered for by the ubiquitous money lender. * * * Finally there is a remarkable lack of economic organization into which the cooperative movement can The most striking element in the economic life of India is waste. But when an attempt is made to remedy this by cooperative organization, it is found that a single society or even a small group can do little; not until the whole machinery of rural activity is properly organized on cooperative lines will there be scope for many forms common in Europe."

Although the writer feels that, considering the small number of years since the inception of the movement in India, the success achieved has been "remarkable," nevertheless "the credit societies have only touched the fringe of the great problem of rural indebted-

They have afforded ground for hope that a way of escape has been discovered, that the Indian cultivator can get out of debt whenever he is prepared to make a real effort at self-help and thrift, and that borrowing from the money lender is not the necessity which some Indian writers prefer to believe. At the same time, it must be admitted that cooperative credit is not likely to rid the country of the great burden of useless debt which encumbers agriculture; there are many devoid of the desire to put forth any effort at self-improvement; many lack the character which is essential to success; many lack the strength of will; many are too selfish, and having got rid of their own debts with the aid of a society resign and leave their neighbors to their fate; others are too weak to resist the

Rupee at par=48.66 cents. Exchange rate varies.

wiles of the ever-present money lender, and sink back into his toils as soon as the society attempts to recover loans from them. The movement is achieving great success, but it is too young yet to replace age-old customs; a new generation must spring up unaccustomed to money lenders and accustomed to regard their society as the financing agency before it will be time to pronounce a verdict upon the cooperative credit movement in India. The magic works in congenial soil here as elsewhere; but there are many who do not desire economic uplift who are content with the ample leisure which the satisfaction of their simple wants leaves them, and who will not throw off the easy habit of reliance upon nature when nature is bountiful and on the money lender when she is not,

Japan⁴

THE earthquake of September, 1923, caused a great deal of damage to the cooperative societies of Tokyo. According to a report received by the executive committee of the International Cooperative Alliance, in the districts of Tokyo, Kanagawa, Chiba, Saitama, and Shiznoka, of 768 cooperative societies, 331 have been seriously affected. In Tokyo alone the damage to cooperative property amounts to over 5,500,000 yen.⁵ The Japanese Government, it is stated, is making arrangements to lend the societies affected 2,400,000 ven for relief work.

The Japanese Central Association of Cooperative Societies has recently been admitted into affiliation with the International Cooper-

ative Alliance.

Netherlands

THE Dutch Statistical Yearbook 6 for 1922 contains (pp. 126-129) figures showing the development of Raiffeisen societies and certain of the central cooperative unions. The table below gives figures showing the loans made, the deposit accounts, and the savings effected by credit societies of the Raiffeisen type for each year of the period 1912 to 1921:

DEVELOPMENT OF RAIFFEISEN CREDIT SOCIETIES IN THE NETHERLANDS, 1912 TO 1921

[Florin at pur=40.2 cents. Exchange rate varies]

Year.	Total number	Number of	Loan	s made		accounts at of year	Surplu
THERE AND DESIGNATION IN	of societies	societies reporting	Number	Amount	Number	Amount	for year
	1. PH.			Floring		Florina	Florin
912	835	830	14, 591	12, 725, 000	99, 152	44, 902, 000	179, 0
913	886	883	15, 696	15, 817, 000	112, 976	52, 183, 000	214, 0
914	928 955	926	12, 061	12, 022, 000	126, 630	56, 599, 000	258, 0
916	1, 024	953 1, 016	10, 384 10, 989	11, 835, 000 17, 739, 000	145, 723	81, 674, 000	136, 0
917	1, 067	1,061	11, 5'9	20, 064, 000	167, 115 190, 180	113, 043, 000 149, 080, 000	444, 0 376, 0
918	1, 115	1, 105	9, 843	28, 268, 000	216, 573	196, 842, 000	435, 0
919	1, 159	1, 154	10, 828	49, 760, 000	242, 520	227, 765, 000	539, 0
920	1, 206	1, 201	16, 830	55, 130, 000	265, 829	238, 361, 000	928, 6
921	1, 228	1, 223	18, 328	49, 216, 000	306, 650	289, 710, 000	1, 286, 0

In the table following are shown the membership, business, and certain financial statistics of seven of the central cooperative organizations of the Netherlands, for the period 1910 to 1922:

<sup>International Cooperative Bulletin, London, March, 1924, p. 72.
Yen at par=49.85 cents. Exchange rate varies.
Netherlands. Centraal Bureau voor de Statistiek. Jaarcijfers, 1922. The Hague, 1924. liii, 335 pp.</sup>

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NETHERLANDS, 1910 rate varies] THE SOCIETIES IN Exchange CENTRAL COOPERATIVE SO [Florin at par=40.2 cents. OF DEVELOPMENT

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AT THE end of 1922, there were in Norway 823 consumers' The 436 societies which rendered reports had a combined membership of 109,521, a business for the year of 133,388.

900 kroner, and a net surplus saving of 4,599,400 kroner.

The National Cooperative Union of Norway, which acts also as the wholesale society for the consumers' movement, had a business during 1923 of 23,954,644 kroner as compared with 20,745,181 kroner in 1922. Savings deposited by members amounted to 4,075,000 kroner in 1923 as against 3,200,000 kroner in 1922.

The insurance society "Samvirke" has, in the two years it has been functioning, issued 5,800 policies amounting to 63,000,000 kroner.

Agricultural Societies

The table below shows, for each type of agricultural society in Norway, the amount of business done during the years 1919 to 1922: AMOUNT OF BUSINESS OF NORWEGIAN AGRICULTURAL COOPERATIVE SOCIETIES, 1919 TO 1922, BY TYPE OF SOCIETY

[Krone at par=26.8 cents. Exchange rate varies]

Type of society	1919	1920	1921	1922
Central joint-purchase societies	Kroner 58, 665, 624 80, 403, 040 10, 745, 828	Kroner 62, 568, 077 100, 545, 100 13, 266, 012	Kroner 47, 332, 740 97, 118, 200 14, 151, 722	Kroner 37, 932, 52 98, 585, 32 14, 881, 51
Marketing societies: Agricultural products Eggs Timber Fruit Fish	6, 008, 564 93, 032 8, 713, 780	8, 476, 274 595, 531 10, 715, 600 162, 942 953, 016	4, 670, 310 607, 389 1 10, 715, 600 1 162, 900 1, 120, 000	3, 467, 29 670, 14 761, 40 1 162, 90 1, 131, 68

^{1 1920} figure. No later report available.

There are seven of the central joint purchasing societies represented in the above table. These societies have in affiliation 2,578 local societies with a combined membership of 81,441 individuals. The dairies represented number 472. There are in Norway only seven societies whose business is the marketing of general agricultural products. The number of cooperative slaughterhouses is not available; the membership of those included in the above table numbered 25,047.

Switzerland 9

THE 1923 report of the Swiss Union of Consumers' Cooperative Societies (the V. S. K.) states that the revival of industry and agriculture, the increase in the number of tourists, and the decrease in unemployment are indications of a gradual return to prosperity which are reflected in the cooperative movement. In spite of the fact that several member societies failed during the year-12 societies. as against 9 new societies which were admitted to membership in the

⁷ Data are from Norway, Departmentet for sociale saker, Sociale Meddelelser, No. 8, 1923, pp. 182489, and Norges Kooperative Landsforening, Kooperatøren (Christiania), January, 1924.

⁸ Krone, at par=26.8 cents. Exchange rate varies.

⁹ The data on which this section is based are from Verband schweiz. Konsumvereine (V. S. K.), Rapports et Comptes concernant l'activité des organes de l'Union en 1923, Basel, 1924; and Switzerland, Bureau de Statistique, Statistisches Jahrbuch der Schweiz, 1922, Berne, 1923, p. 89.

union—the report states: "We can declare, in spite of the regrettable disappearance of these societies, that in the aggregate, the cooperative movement has surmounted the postwar difficulties, and we are happy to state that the great majority of our affiliated societies are constructed on a solid financial foundation and are equal to their task."

The following table shows the development of the union, by fiveyear periods, since 1893:

DEVELOPMENT OF SWISS COOPERATIVE UNION, 1893 TO 1923

[Franc at par=19.3 cents. Exchange rate varies]

Year	Number of affili- ated societies	Share capital	Reserve fund	Value of fixed prop- erty	Value of products manufac- tured	Amount of sales	Net surplus savings for year
1890	43	Francs	Francs	Francs	Francs	Francs	Francs
1893	38	3,700				-386, 524	888
1899	105	34, 800	41,010	51, 222		3, 306, 295	31, 048
1904	175	50, 400	150, 000	354, 000		7, 673, 238	85, 634
1909	311	108, 200	310,000	1, 280, 000		21, 402, 530	99, 539
1914	396	148, 200	1, 350, 000	1, 850, 000	9, 020, 131	45, 717, 077	351, 279
1919	476	1, 428, 600	2, 800, 000	2, 908, 000	17, 825, 648	141, 441, 837	814, 608
1922	519	1, 569, 600	3, 150, 000	3, 410, 001	16, 714, 537	118, 421, 507	310, 028
1923	516	1, 569, 400	3, 500, 000	3, 580, 001		119, 519, 480	545, 094

Of the capital of 1,569,400 francs 10 shown for 1923 in the table above, 1,550,840 francs had been paid in at the end of the year. Deposits of member societies amounted to 7,551,291 francs. Of the total sales of the union during the year, 114,164,937 francs represents goods sold to affiliated societies, while the remainder, 5,354,543 francs, represents goods sold to others.

In the following table are shown similar statistics for the societies affiliated with the Swiss Cooperative Union, for the period 1913 to 1922:

DEVELOPMENT OF SOCIETIES AFFILIATED WITH SWISS COOPERATIVE UNION, 1913 TO 1922

[Franc at par=19.3 cents. Exchange rate varies]

Year	Number of affiliated societies	Number of members	Share capital	Reserve fund	Amount of business	Net sur- plus savings for year	Amount returned in dividends on purchases
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1	387 396 407 421 435 461 476 493 505 519*	263, 034 275, 710 286, 040 305, 761 326, 476 342, 548 354, 546 363, 420 369, 074 363, 478	Francs 4, 855, 645 4, 968, 556 5, 319, 701 5, 859, 662 6, 529, 406 7, 066, 399 7, 948, 059 8, 604, 460 8, 930, 614 9, 274, 661	Francs 11, 213, 262 11, 860, 104 12, 509, 614 13, 686, 394 15, 460, 019 17, 438, 493 19, 168, 345 19, 628, 812 18, 965, 911 19, 089, 384	Francs 131, 022, 135 142, 637, 189 134, 242, 959 157, 490, 242 196, 540, 714 240, 333, 413 293, 162, 854 325, 857, 261 337, 366, 085 274, 129, 268	Francs 10, 432, 304 10, 850, 123 9, 077, 847 9, 849, 159 12, 064, 193 13, 356, 956 15, 670, 672 16, 549, 780 14, 455, 218 12, 862, 094	Francs 8, 704, 974 8, 895, 446 7, 600, 571 7, 962, 982 9, 298, 841 10, 202, 117 12, 600, 778 13, 996, 501 12, 510, 842 11, 086, 328

Subject to revision.
 Franc, at par=19.3 cents. Exchange rate varies.

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Strikes and Lockouts in the United States, 1916 to 1923

DURING the past 10 years the United States Bureau of Labor Statistics has kept a record of such strikes in this country as have come to its attention. The bureau has no authority to require reports relative to strikes from anyone, and therefore is obliged to obtain its information in such ways as it can and from such sources as are available. This information has been obtained chiefly from the following sources: Labor papers and trade-union journals; trade periodicals; lists of strikes issued by labor, trade, and other organizations; clipping bureaus; daily newspapers published in the more important industrial cities of the country; reports from the Conciliation Service of the United States Department of Labor, and from State labor boards; and reports sent in by agents of this bureau. The bureau follows up the report of a strike by sending a questionnaire or schedule of inquiry to one or both of the parties to the dispute whenever this is feasible.

During the year 1923, 2,629 circulars of inquiry asking for information in regard to reputed strikes and lockouts were sent to employers reported to have had strikes in their establishments and to officials of unions concerned in or believed to have knowledge of such labor disputes. Of this number, 1,131, were returned answered in whole or in part, 123 were returned undelivered for various reasons, and the remainder were unanswered. In addition 250 letters were sent,

While the present report, based on the data secured from the above-mentioned sources, omitting such reputed strikes as the returned schedules of inquiry indicated had been erroneously reported, is not based on a complete list of all strikes that have occurred in the country during the years under review, for such a list is unobtainable, it is believed that no strikes of importance have failed to come to the attention of the bureau and that the report is reasonably complete. Accuracy as to details is not always possible, since it is necessary at times to use approximations where reports are conflicting or lack precision.

Revised statistics for the labor disputes, resulting in strikes and lockouts during each of the years 1916 to 1923 are given for purposes of comparison.

In this report, as in the report on "strikes and lockouts" during 1922, no distinction is drawn, for statistical purposes, between a "strike" and a "lockout." In tabulating labor or industrial disputes resulting in a cessation of work it has not infrequently happened that the strike and lockout definitions overlapped, and that as to such disputes it was necessary to make a distinction which was more or less arbitrary or artificial in order to tabulate "strikes" and "lockouts" separately. Of course the question of intent or motive is a

180

vital one, and the information in the possession of the bureau is not always sufficiently definite or accurate to enable it to determine this question satisfactorily. It was felt, therefore, that the distinction did not afford a sound basis for a separate classification of such industrial disputes.

The report shows a material increase in the number of strikes in 1923 as compared with the preceding year, but a large decrease in the number of strikers. In fact the number of strikers in 1923 falls short of being 50 per cent of the number in 1922, owing to the large number of strikers involved in the bituminous coal strike and in the

railroad shopmen's strike of that year.

Measured by the number of strikers involved, the most important industrial disturbance in 1923 was the strike of 155,000 anthracite coal miners in September, with the check-off and a 20 per cent wage increase as the main grounds of dispute. This strike was settled inside of three weeks on the basis of a compromise, the miners securing a wage increase of 10 per cent.

The next largest strike in 1923 was that of about 50,000 clothing workers in New York City during May, for a 10 per cent wage increase. This strike embraced about 2,000 shops, lasted two weeks,

and was won by the employees.

Another strike, of less magnitude, occurred in the clothing industry of New York City. This disturbance began February 7 and involved about 200 shops and 18,000 workers, who demanded a 40-hour week and the right of their business agent to visit the shops. A compromise was effected and the strike ended February 26.

Some 17,000 coal miners employed by the Lehigh Coal Co. in 13 collieries at Pittston struck December 8 to 17 on account of various grievances, which were referred to conciliators. Other strikes of anthracite coal miners, following the big strike in September, included one by the 15,000 miners of the Hudson Coal Co. at Scranton, involving 19 collieries. This disturbance, it was reported, resulted from the refusal of the company to meet the grievance committee of the miners. The grievances were submitted to conciliators and the strike ended October 10, after running for only two days.

Table 1 shows the number of disputes beginning in each month,

1916 to 1923.

Table 2 shows the number of disputes beginning in each year, 1916 to 1923, by States and by sections of the country.

TABLE 1 .- NUMBER OF DISPUTES BEGINNING IN EACH MONTH, 1916 TO 1923

				Ī	Vumbe	r of dis	sputes	beginn	ing in-					
Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Month not stated	Total dis- putes
1916 1917 1918 1919 1920 1921 1922 1923	188 288 191 199 227 238 131 64	206 211 223 198 192 172 94 70	294 318 312 192 280 194 75 112	434 445 321 270 414 292 107 205	617 463 392 431 414 573 102 238	354 323 296 322 310 152 59 130	313 448 288 379 298 167 92 143	326 360 278 412 264 143 94 103	252 349 212 406 230 123 81 90	261 322 145 327 192 90 62 114	197 257 208 160 106 92 62 62	149 197 250 125 108 76 40 52	198 469 237 156 264 70 81 108	3, 789 4, 450 3, 353 3, 577 3, 296 2, 386 1, 080 1, 491

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TABLE 2.—NUMBER OF DISPUTES BEGINNING IN EACH YEAR, 1916 TO 1923, BY STATES AND SECTIONS

referentiant, they distinguished with	MG.	N	umber	of dispu	ites beg	inning i	n-	
State and section	1916	1917	1918	1919	1920	1921	1922	19
Mahama	15	20	13	18	25	15	4	-
Maska	3	5	3	3	1	1	1	
rizona	.7	20	4	7	9	4	1	
rkansas	20	36	111	7	15	7	2	
alifornia	55	112	94	102	120	97	37	
anal Zone	4			. 1	1			
olorado	17	48	32	31	22	27	7	
onnecticut	326	178	92	135	128	61	25	
elaware	12	17	-14	111	10	4	1 1	
District of Columbia	8	14	13	10	14	5	4	
lorida	9	16	20	30	9	19	5	
eorgia	8	28	40	39	29	21	3	
awaii	4	1	1		1			
laho	5	32	10	10	5	3		1
linois	159	282	248	267	254	164	61	
idiana	75	73	76	106	99	61	15	
wa	26	65	41	57	47	42	15	
ansas	15	53	41	45	14	21	4	
entucky	13	38	19	26	22	17	10	
ouisiana	8	39	23	51	37	29	8	
aine	30	40	36	40	22	24	11	
aryland	48	59	72	41	57	27	12	
assachusetts	383	353	347	396	377	201	138	
lichigan	71	64	60	84	63	71	18	
linnesota	30	53	40	49	50	45	8	
ississippi	4	13	5	2	4	9	******	
lissouri	97	122	105	69	63	54	26	
Iontana	15	77	33	23	16	21	2	
ebraska	21	• 28	11	17	12	11	3	
evada		2	7	5	4	1	3	
ew Hampshire	20	20	17	34	32	6	30	
ew Jersey	417	227	138	183	145	125	65	
ew Mexico	FOO	4	2	1 4	000	2	******	= 0 =
ew York	592	711	689	536	600	. 384	190	
orth Carolina	8	7	14	22	21	26	6	
orth Dakota	900	2	3	000	4	8	2	
hio	290	279	197	237	206	167	72	
klahoma	24	35	19	32	24	29	9	
regon	23	58	18	38	22	23	8	
ennsylvania	574	494	311	280	250	222	99	
orto Rico	23	705	5	5	6	2	22	
hode Islandthe Carolina	77	105	53	78	89	42	37	
outh Carolinabuth Dakota	5	3	3.3	11	5 5	12	2	
ennessee	26	42	26	40		3 28		
ennessee	28		41	50	27	64	8	
ah	3	56			73		10	
ah	10	21	14	22 14	14	5 2	13	
rginia	16	35	37	28	31	14	5	0.00
rgin Islands	10	99	01	20	01		0	
ashington.	58	294	130	113	69	63	22	++-
est Virginia.	40	64	50	63	49	28		
isconsin	63	57	54	77	68	41	8 21	
yoming	00	2	5	11	6	41	21	
terstate	4	25	4	21	10	19	27	
Total	3, 789	4, 450	3, 353	3, 577	3, 299	2, 382	1,080	1,
orth of the Ohio and east of the Ministry								
orth of the Ohio and east of the Mississippi.	3, 186	3, 034	2, 466	2, 678	2, 431	1,607	811	1,
uth of the Ohio and east of the Mississippi	174	315 1,076	248 635	284 594	234 624	189 567	88 154	
est of the Mississippi	425							

The usual increase in the number of strikes during the months of April and May of each year may be ascribed to increased industrial activity at that time of the year, and to the fact that trade agreements in many industries terminate then, giving rise to controversies over wages, etc., in making new agreements.

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versies over wages, etc., in making new agreements.

Data for the closing months of the year 1923 are more or less incomplete, because some reports do not reach the bureau until

several months after the strike has ended.

More than half the total number of strikes in 1923 occurred in the three States of New York, Pennsylvania, and Massachusetts, in the order named. As to the number of strikes by cities, New York City heads the list with 273, followed by Chicago with 44, Boston with 42, and Philadelphia with 30.

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Table 3 shows the number of disputes in cities having 25 or more disputes during any year, 1916 to 1923.

TABLE 3.—NUMBER OF DISPUTES IN CITIES IN WHICH 25 OR MORE OCCURRED IN ANY YEAR, 1916 TO 1923

City ·	1916	1917	1918	1919	1920	1921	1922	1923
Baltimore, Md.	39	36	47	26	34	22	9	14
Boston, Mass	62	87	68	98	51	43	22	45
Bridgeport, Conn	38	30	13	25	10	2	3	
Buffalo, N. Y	41	28	24	20	47	20	8	5
Chicago, Ill	73	123	100	126	125	89	24	A.
Cincinnati, Ohio	29	33	26	39	31	18	10	16
Cleveland, Ohio	60	76	39	47	41	26	21	1 11
Denver, Colo	8	26	19	22	15	16	2	- 6
Detroit, Mich.	31	19	18	40	24	39	12	13
Fall River, Mass	20	13	18	28	22	10	8	5
Hartford, Conn	28	21	8	17	19	2	1	
Holyoke, Mass	26	9	17	18	15	3	î	5
lersey City, N. J.	28	24	7	25	14	9	9	3
Kansas City, Mo	20	36	20	16	13	17	9	1
Lynn, Mass	8	8	22	11	27	12	14	10
Milwaukee, Wis	30	14	11	27	28	9	îî	4
Newark, N. J.	55	50	36	33	16	23	6	12
New Orleans, La	7	23	20	40	29	23	7	îi
New York, N. Y	363	484	484	370	341	193	129	273
Paterson, N. J	18	27	20	15	12	17	14	16
Philadelphia, Pa	74	89	80	60	59	61	20	30
Pittsburgh, Pa	47	37	19 [19	15	23		
Providence, R. I.	21	46	18 1	31	32	17	6	P.
Rochester, N. Y	16	27	35	13	37	36	17	12
an Francisco, Calif	23	37	30	34	26	22	7	14
t. Louis, Mo	58	53	70	39	40	26	11	19
Seattle, Wash	15	49	29	24	26	21	5	14
pringfield, Mass	31	27	12	20	27	6	6	10
Toledo, Ohio	16	16	27	24	20	15	3	7
renton, N. J.	25	15	11	4	21	5	1	3
Vilkes-Barre, Pa	6	25	8	4	9 1	10	7	12
Vorcester, Mass	18	12	11	28	18	12.	2	. 0
oungstown, Ohio	27	I	5	14	A	6	4	4

Table 4 shows, by sex of persons involved, the number of disputes beginning in each year, 1916 to 1923.

Table 4.—NUMBER OF DISPUTES BEGINNING IN EACH YEAR, 1916 TO 1923, BY SEX OF EMPLOYEES

Sex		1	Number	of disput	tes begin	ning in-		
DEA .	1916	1917	1918	1919	1920	1921	1922	1923
Males Females Males and females Not reported	3, 121 122 269 277	3, 611 158 190 491	2, 467 90 278 518	2, 818 88 521 150	2, 347 78 343 531	1,747 30 558 47	670 22 333 55	964 30 406 91
Total.	3, 789	4, 450	3, 353	3, 577	3, 299	2, 382	1,080	1, 491

The table following shows for each year the relation to labor unions of workers engaged in disputes.

TABLE 5.-RELATION OF WORKERS TO LABOR UNIONS, 1916 TO 1923

Relation of workers to unions	Number of disputes										
Relation of workers to unions	1916	1917	1918	1919	1920	1921	1922	1923			
Connected with unions	2, 458 446 71 814	2, 392 209 55 1, 794	1, 903 362 26 1, 062	2, 030 143 30 1, 374	2, 502 137 8 652	2, 036 62 5 279	1 813 37 5 209	2 1, 212 77 18 154			
Total	3, 789	4, 450	3, 353	3, 577	3, 299	2, 382	1 1,064	2 1, 462			

¹ Not including 12 disputes which included both union and nonunion workers and 4 in which the strikers withdrew from the unions after the strike began.

¹ Not including 29 disputes which included both union and nonunion workers in 2 of which the nonunion strikers joined unions after the dispute began.

The principal causes of strikes are shown in Table 6.

TABLE 6 .- PRINCIPAL CAUSES OF DISPUTES BEGINNING IN EACH YEAR, 1916 to 1923

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	Emi	N	umber o	of dispu	tes begi	nning i	II	
Cause of dispute	1916	1917	1918	1919	1920	1921	1922	1923
Increase of wages.	1, 301	1, 571	1, 397	1,074	1, 328	120	151	43
Decrease of wages Wages, not otherwise specified	35	36	36	86	147	896	258 29	4
Nonpayment of wages.	13	18	31	11	20	5	10	7
Increase of hours	7	18	6	25	8	18	12	
Decrease of hours	113	132	79	117	62	294	21	
Increase of wages and decrease of hours	481	378	256	578	269	34	16	
Decrease of wages and increase of hours		010	200	0.0	200	77	40	,
Recognition of union	349	292	179	350	123	53	65	
Recognition and wages	98	132	79	78	87	106	10	
Recognition and hours	20	27	16	16	6	1 14	3	
Recognition, wages, hours	56	48	49	76	45	11	7	
Jeneral conditions	59	104	61	70	82	71	63	
Conditions and wages	58	71	54	62	58	43	33	
Conditions and hours	3	18	2	5.	2	7		
Conditions, wages, and hours	25	26	8	37	43	7	4	
Conditions and recognition	4	13	7	14	6	6	4	
Discharge of foreman demanded	17	38	54	19	30	7	7	
Discharge of employees	127	208	138	144	140	38	36	
Employment of nominion men	73	79	60	12	38	24	9	
Objectionable persons hired	1	8	2	11	22	16	8	
Discrimination.	9	12	32	52	34	12	8	
pen or closed shop.	13	22	45	42	113	88	48	
Mosed shop and other causes	42	19	17	128	72	48	11	
Infair products	7 40	9	10	5	30	27	16	
n regard to agreement	40	84 24	46	50 36	59 11	68	73	1
New agreement	33	71	35	107	63	36	11	
ympathy urisdiction	19	21	16	16	20	10	32 10	
Insatisfactory food	4	11	10	8	20	10	10	
discellaneous	116	168	181	100	74	51	22	
fot reported	631	792	461	248	305	162	63	
Total	3, 780	4, 450	3, 353	3, 577	3, 299	2, 382	1,080	1,4

The number of persons involved in disputes is shown in Table 7, by classified groups.

TABLE 7.—NUMBER OF DISPUTES BEGINNING IN EACH YEAR, 1916 TO 1923, BY CLAS SIFIED NUMBER OF PERSONS INVOLVED

state of the last		1	Tumber	of disput	es begin	ning in-		
Number of persons involved	1916	1917	1918	1919	1920	1921	1922	1923
1 to 10	210	171	152	182	154	257	. 79	11
11 to 25	355	304	279	288	311	336	121	17
26 to 50	427	350	343	346	333	287	145	19
51 to 100	420	361	357	395	349	252	153	14
101 to 250	399	368	384	484	358	243	142	15
251 to 500	354	287	287	352	275	164	87	13
501 to 1,000	241	194	143	215	142	102	61	7
1,001 to 10,000	238	223	204	332	181	133	61	11
Over 10,000	23	68	17	54	19	15	16	
Not reported	1, 122	2, 124	1, 187	929	1, 177	593	215	37
Total	3, 789	4, 450	3, 353	3, 577	3, 299	2, 382	1, 080	1, 49

Table 8 shows the number of disputes for which the number of employees directly involved was reported, the number of such employees, and the average number of employees per dispute.

TABLE 8.—NUMBER OF DISPUTES FOR WHICH THE NUMBER OF EMPLOYEES WAS REPORTED, NUMBER OF EMPLOYEES, AND AVERAGE NUMBER OF EMPLOYEES PER DISPUTE, BY YEARS, 1916 TO 1923

Year	Disputes	Employees	A verage number of employees per dis- pute
1916	2, 667	1, 599, 917	600
1917	2, 325	1, 227, 254	528
1918	2, 151	1, 239, 989	576
1919	2, 612	4, 154, 733	1, 591
1920	2, 114	1, 441, 381	682
1921	1,782	1, 098, 347	616
1922	862	1, 607, 894	1, 865
1923	1, 117	743, 569	666

The following statement shows, by months, the number of persons directly involved in disputes for 1923, so far as reported:

January	18.	130
February		901
March	51,	407
April	71.	153
May	118,	431
June	47,	207
July	32,	682
August	25,	660
September	186,	353
October	50,	157
November	32,	512
December	27,	
Month not stated	15,	
Total	743.	

Table 9 shows, for each year, 1916 to 1923, the number of labor disputes occurring in the industries named.

TABLE 9 .- NUMBER OF DISPUTES IN SPECIFIED INDUSTRY GROUPS, 1916 TO 1923

Industry			N	umber o	of dispu	tes		
Indistry	1916	1917	1918	1919	1920	1921	1922	1923
Building trades	394	468	434	468	511	583	113	206
Clothing industry	227	495	436	317	336	240	215	357
Furniture industry	50	43	26	35	26	17	4	12
Iron and steel workers	72	56	74	76	25	25	10	10
Leather workers	34	19	16	27	32	26	17	17
Lumber industry	44	299	76	46	38	25	10	18
Metal trades	547	515	441	581	452	194	82	106
Mining	416	449	208	176	183	95	49	157
Paper manufacturing	54	41	40	47	39	42	12	15
Printing and publishing	27	41	40	71	83	506	56	19
Ship building	31	106	140	109	45	20	4	6
Slaughtering, meat cutting, and packing	70	38	42	73	42	30	6	11
Stone work	61	26	14	13	29	32	60	15
Textile industry	261	247	212	273	211	114	115	133
Tobacco	63	47	50	56	34	19	12	16
Transportation, steam and electric	228	343	227	186	238	36	67	9

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374 1, 491 Table 10 shows the number of disputes which have occurred in certain specified occupations for each year, 1916 to 1923.

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TABLE 10.-NUMBER OF DISPUTES IN SPECIFIED OCCUPATIONS, BY YEARS, 1916 TO 1923

Occupation			Nu	mber o	of dispu	ites	E.	
Оссирации	1916	1917	1918	1919	1920	1921	1922	1923
Bakers Boiler makers Boot and shoe workers Brewery workers Brick and tile workers Building laborers and hod carriers Carpenters Chauffeurs and teamsters Freight handlers and longshoremen Glass workers Hat and cap makers and fur workers Inside wiremen Machinists Metal polishers Miners, coal Molders	21 23 54 75 108 158 41 26 32 257 43 373	106 44 38 22 9 74 101 164 194 23 33 204 25 355 165	47 28 50 27 5 27 81 129 89 13 38 45 207 29 162 2110	82 31 54 23 16 49 95 95 56 9 37 33 202 61 148	64 22 63 25 21 90 73 130 60 11 51 51 127 78 161 145	99 16 28 24 12 10 49 43 36 2 25 29 8 8 87 93	24 4 55 12 14 7 20 20 20 18 4 39 7 7 7 3 4 4 4 4 3 8	33 55 53 22 55 22 11 22
Plumbers and paper hangers	46 53 38 23	45 53 19 33 118 16 59	61 72 15 45 117 20 51	81 55 15 19 110 15 69	46 81 14 14 81 81 32 42	62 82 3 82 12 5	10 21 3 8 19 6	

The following table shows, so far as reported, the distribution of disputes according to the number of establishments involved in each dispute, by years, 1917 to 1923:

TABLE 11 .- NUMBER OF ESTABLISHMENTS INVOLVED IN DISPUTES, 1917 TO 1923

Total Michael Construction			Numl	per of dis	putes		
Establishments involved	1917	1918	1919	1920	1921	1992	1923
One establishment	3, 078 143 73 41 18 403	2, 541 70 42 23 90 327	2, 136 142 99 59 52 910	1, 989 86 59 40 35 426	1,070 113 94 62 43 583	716 28 17 17 17 9	1, 073 56 34 13 16
Total	3, 756	3, 093	3, 398	2, 635	1, 965	890	1, 29

Table 12 shows the number of disputes ending in each month, 1916 to 1923.

TABLE 12.-NUMBER OF DISPUTES ENDING IN EACH MONTH, 1916 TO 1923

5 1				Nu	ımber	of disp	utes er	iding in	n—					m
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Month not stated	Total dis- putes
1916 1917 1918 1919 1920 1921 1922 1923	117 111 105 122 84 64 42 26	132 94 125 113 85 61 39 51	176 159 168 128 129 106 37 67	292 198 208 144 197 102 37 140	337 223 261 226 200 222 76 177	216 172 223 195 188 171 47 111	200 157 211 207 191 144 50 117	217 156 207 252 157 141 62 80	223 201 175 239 155 91 66 82	173 177 147 194 117 81 55 92	156 122 117 147 72 65 59 52	78 132 166 120 60 46 52 35	131 172 85 80 125 232 89 62	2, 448 2, 074 2, 198 2, 167 1, 760 1, 526 711 1, 092

In Table 13 are given the data relative to the results of disputes ending in each year, 1916 to 1923.

TABLE 13.-RESULTS OF DISPUTES ENDING IN EACH YEAR, 1916 TO 1923

Transition 1		1	Number	of disp	utes en	ding in-	-	
Result	1916	1917	1918	1919	1920	1921	1922	1923
In favor of employers	748 749 777 73 101	395 631 720 137 191	465 627 691 204 211	680 583 797 50 57	650 397 448 61 204	701 256 291 80 198	242 237 104 16 112	356 364 167 46 159
Total	2, 448	2, 074	2, 198	2, 167	1,760	1, 526	711	1,092

The approximate total duration of 2;116 disputes ending in 1916 for which duration was reported was 49,680 days, or an average duration of 23 days each. In 1917 the total duration of 1,435 such disputes was 26,981 days, or an average duration of 19 days each. In 1918 the total duration of 1,709 disputes was 29,895 days, or an average of 17 days each. In 1919 the total duration of 1,855 disputes was 62,930 days, or an average of 34 days each. In 1920 the total duration of 1,321 disputes was 51,893 days, or an average duration of 39 days each. In 1921 the total duration of 1,258 disputes was 64,231 days, or an average duration of 51 days each. In 1922 the total duration of 552 disputes was 21,017 days, or an average of 38 days each. In 1923 the total duration of 917 disputes was 21,406 days, or an average of 23 days each.

Table 14 shows the duration of disputes ending in each year, 1916 to 1923, by classified periods of duration.

TABLE 14.—DISPUTES ENDING IN EACH YEAR, 1916 TO 1923, BY CLASSIFIED PERIODS OF DURATION

Duration		N	fumber o	of dispute	es ending	in—		
D'ALGUIVIA	1916	1917	1918	1919	1920	1921	1922 .	1923
Less than 1 day	38	88	84	29	31	32	16	25
1 day	141	196	145	76	57	27	47	82
2days	185	113	171	70	64	44	37	70
3days	147	105	127	80	54	44	24	64
4 days	125	62	111	78	51	47	23	60
5days	131	56	72	74	36	35	26	32
6days	112	65	67	45	44	32	18	40
7 days	93	95	115	69	66	45	31	60
8 days	86	29	60	72	45	30	19	28
9days.	50	31	38	33	30	19	8	26
10 days	108	43	58	57 1	31	44	14	19
11 days	41	24	24	30	28	19	4	14
12 days	42	39	26	28	24	12	6	. 16
13 days	27	13	17	30	21	14	10	32
14 days	64	40	49	42	40	25	9	34
15 to 18 days	148	75	88	113	83	76	39	53
19 to 21 days	83	46	72	95	25	49	27	38
22 to 24 days	40	23	40	51	41	16	12	12
96 to 99 dame	61	35	32	65	56	31	9	32
29 to 31 days	53	28	65	74	47	43	8	38
32 to 35 days	25	27	31	61	21	36	13	20
36 to 42 days	50	38	39	81	46	54	12	12
43 to 40 dozes	24	29	36	78	48	40	14	11
43 to 49 days	53	37	48	124	69	86	29	23
64 to 77 days	40	22	18	72	51	60	16	23
64 to 77 days	27		17	57	41	61	14	15
9 to 100 days	99	12	35				51	20
92 to 199 days	23	55		149	125	186 51	15	18
Over 200 days	332	639	24 489	312	46 439	268	160	176
Not reported	352	039	409	312	459	208		1/0
Total	2, 448	2,074	2, 198	2, 167	1,760	1,526	711	1, 092

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Included in the above table as "not reported" are some disputes that were known or believed to be terminated, although the period of duration was unknown for various reasons. In some cases the strikes were reported as "short," in others the places of the strikers were filled soon after the trouble occurred, and the work became normal in a few days. In some instances the establishments were reported as running open shop or at capacity.

In 1917 the number of unauthorized strikes of which the bureau has information was 72, and in 1918, 58. In 1919 the number was 125, involving 1,053,256 strikers; in 1920 the number was 253, involving 850,837; in 1921 the number was 52, involving 66,804; in 1922 the number was 20, involving 1,846; and in 1923 the number was 25, involving 36,221 employees. Between April 6, 1917, the date of the entrance of the United States into the war, and November 11, 1918, the date of the signing of the Armistice, 6,205 strikes and lockouts occurred.

Strikes and Lockouts in Belgium in 1923

A SUMMARY of the strikes and lockouts occurring in Belgium during the year 1923, classified by industries and by causes, is given in the Belgian Revue du Travail, for February, 1924 (pp. 256-258).

There were 164 strikes settled during the year, which affected 111,220 workers, 104,980 of whom were strikers, the remainder, 6,240, being forced out of employment by the strikes. During the same period there were 4 lockouts, affecting 21,298 workers. The 164 strikes involved 1,026 establishments and the 4 lockouts 355.

The following table shows the number of strikes occurring in the various industries, the number of establishments affected, the number of strikers, and the number of other workers unemployed because of the strikes:

STRIKES IN BELGIUM DURING 1923, BY INDUSTRIES

Industry	Num- ber of	Num- ber of estab- lish-	wor	ber of kers olved	Industry	Num- ber of	Number of estab-	Number of workers involved	
	strikes	ments affect- ed	Di- rectly	Indi- rectly		strikes	ments affect- ed	Di- rectly	Indi- rectly
BuildingChemical	8	25 12	547 2, 293	7	Mines Paper	5	42 14	46, 540 459	53
ClothingCommerce	11 12 2	71 2 12	1, 302	27	Pottery Quarries	10	32 11	2, 638 1, 380	3
FoodGlass	3	1	733 99	100	Textile	30	271 145	14, 383 4, 142	5, 39
Hides and skins Instruments of pre-	13	53	1, 728		Transport	1 9 16	57 125	20, 513 2, 247	
cision	29	80 73	1, 500 4, 455	107	Total	164	1, 026	104, 980	6, 24

¹ Includes 2 strikes in which the number of establishments is not reported.

The most important cause of strikes was demands for wage increases, which caused 122 of the strikes and involved 97,063 workers. The causes next in importance were protests against the dismissal of workers and demands for reinstatement of discharged workers, which resulted in 20 strikes with 3,005 strikers, and the

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question of labor organization, which caused 12 strikes and involved 3,645 workers. Of the remaining 10 disputes affecting 1,267 workers, 1 was caused by the dismissal of a foreman, 1 was a sympathetic strike, and the others involved the length of the working-day, tradeunion questions, and the labor contract. The four lockouts followed refusal to grant increases in wages.

Forty-six strikes, with 9,767 strikers, were settled in favor of the workers, 51, with 22,861 strikers, in favor of the employers, and 67 strikes, with 72,352 strikers, resulted in a compromise. One lockout involving 16,000 workers ended in success for the employers, and the

other three were ended by a compromise.

Labor Disputes in Denmark in 1923

STATISTISKE Efterretninger for April 4, 1924, contains information on labor disputes in Denmark in 1923 secured by the Statistical Department through questionnaires sent to employer and employee organizations reported as affected by the disputes.

Only actual strikes and lockouts were included, while boycotts, sudden discharge of employees, and disputes lasting less than one day, etc., were omitted, since complete data were not always available

relative to these disputes.

In accordance with the provisions of the general agreement of April 4, 1922, which ended that year's general strike, most of the labor contracts concluded in 1922 for a term of one year were extended during the summer of 1922 for one more year so that most of these agreements would then expire in the spring of 1924. Consequently the question of concluding new agreements in 1923 affected but a few trades and most of these succeeded in concluding agree-

ments without any controversies.

The number of work stoppages therefore was small, only 58 being reported, all of very small extent. All of these disputes were strikes except one, for which the nature of the dispute was not determined. Of the 58 disputes 46 concerned only one employer, and only 2 concerned a large number, namely, 60 and 46, respectively. Twelve disputes involved from 1 to 5 workers, 25 from 6 to 25 workers, 17 from 25 to 100 workers, and 3 involved 380, 260, and 202 workers, respectively. Of the 58 disputes, 36 lasted less than 1 week, 14 lasted from 1 to 2 weeks, and the other 8 work stoppages lasted at the most 6 weeks, so that in 1923 there was no dispute which lasted very long. The total number of workers involved in disputes in 1923 was about 2,000.

The number of days lost in 1923 by the workers directly involved was 19,700, the smallest number of days lost since 1897, when information was first obtained, except in 1903 when 18,500 days were lost because of labor disputes. For the other years only 1912 and 1915 show losses of less than 50,000 days. The largest numbers are shown for 1919 with 900,000 days lost, 1920 and 1921 with each about 1,300,000 days, 1922 with 2,300,000, and 1899 with 2,800,000 working days lost. Work stoppages in 1923 averaged less than 1

hour per organized worker.

Labor Disputes in Finland, 1923

Social Affairs, states (pp. 230-238) that according to reports received from employers and employees there were 50 work stoppages in Finland in 1923, involving 196 employers and 7,588 workers. Of the disputes, 29 were designated as strikes and 3 as lockouts, while 2 were reported as "mixed" disputes. Twenty-three of the disputes were of very small scope, involving at the most 25 workers, and 10 involved over 100 workers, 1 of these affecting over 1,000 employees. The average number of workers per dispute was 151. Half the disputes were of less than 2 weeks' duration, the average duration per dispute being 37.3 days.

In 1923, labor disputes caused a loss of 261,473 working days as against 252,374 during the previous year. The building industry suffered the greatest loss, 42.7 per cent of the total number of working-days lost having occurred in that industry, while machine shops came next with 22.7 per cent. Machine shops showed the highest average loss per worker (136.7 days), while the building industry showed the largest average number of days lost per dispute (27,928).

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The building industry led as regards number of workers involved in disputes during the year (3,616), and loading and unloading came next (1,084).

Demands relating to wages were the principal cause of controversy. A majority (33) of the wage disputes were caused by demands for increased wages, while 4 were caused by attempts to decrease wages, and 3 by delay in payment of wages. Less than one-half of the work stoppages terminated in favor of the employers; the disputes thus settled, however, involved only one-fourth of the total number of workers, while about two-thirds of the workers were involved in disputes settled by mutual concessions.

Official conciliation is reported as having taken place in two disputes. In five cases representatives of the workers' organizations acted as conciliators.

In the 28 disputes for which information was secured, 3,115 employees, or 47.8 per cent, were affiliated with the labor organizations. In 22 of the 42 instances for which reports were available one or more employers were affiliated with an employers' association.

CONCILIATION AND ARBITRATION

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3,115 nizalable tion. Conciliation Work of the Department of Labor in April, 1924

By Hugh L. Kerwin, Director of Conciliation

THE Secretary of Labor, through the Conciliation Service, exercised his good offices in connection with 47 labor disputes during April, 1924. These disputes affected a total of 25,742 employees. The table following shows the name and location of the establishment or industry in which the dispute occurred, the nature of the dispute (whether strike or lockout or controversy not having reached strike or lockout stage), the craft or trade concerned, the cause of the dispute, its present status, the terms of settlement, the date of beginning and ending, and the number of workmen directly and indirectly affected.

On May 1, 1924, there were 48 strikes before the department for settlement and, in addition, 16 controversies which had not

reached the strike stage. Total number of cases pending, 64.

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LABOR DISPUTES HANDLED BY THE UNITED STATES DEPARTMENT OF LABOR THROUGH ITS CONCILIATION SERVICE, APRIL, 1924

					Duration	tion	Men involved	rolved.
Company or industry and location	Nature of controversy	Craft concerned	Cause of dispute	Present status and terms of settlement	Begin- ning	Ending	Di- rectly	Indi- rectly
Aycock Hosiery Mills, South Pitts-	Strike	Knitters and card-	Wage cut-	@	1924 Mar. 27	1924 Apr. 11	335	15
Fred Cantrel Co., Chattanooga, Tenn.	do	Plumbers and steam	Asked increase of 124	workers. Overstocked. Unable to adjust. Conferences unsuc-	Apr. 3	do	00	117
Salvin & Thompson Corp., New York	do	fitters. Hotel workers	cents an hour.	cessful. Pending. Mediation declined at this	Mar. 24	1	200	1 C C C C C C C C C C C C C C C C C C C
Packing houses, Scranton, Pa	Controversy.	Packing employees	Wages, hours, and con-	Adjusted. Increases, 49-hour week,	Mar. 15	Apr. 2	400	300
Glass workers, St. Louis, Mo	Strike	Glass workers	Asked 44-hour week; 124 cents an hour in-	Pending. No progress.	qo	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	120	20
Building laborers, St. Louis, Mo	do	Building laborers	crease. Asked 20 cents an hour	Adjusted. Accepted 74 cents per hour	Mar. 1	Mar. 29	2,700	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Painters and decorators, St. Louis, Mo.	do	Painters and deco-	Asked increase and 40-	Adjusted. Agreed on \$10.40 per day.	Mar. 15	May 5	1,800	# E E
Hoisting engineers, Indianapolis, Ind.	Controversy.	rators. Engineers	hour week. Wage controversy	Adjusted. Agreed on former scale,	Jan. 1	Mar. 29	09	10
Iron workers, Indianapols, Ind	do	Iron workers		are.	do	qo	75	10
Plasterers, Indianapolis, Ind	do	Plasterers	Asked \$1.50 an hour and	\$1.25 per hour. Adjusted, \$1.50 per hour and 6-day	op	Mar. 28	100	10
Lathers, Indianapolis, Ind	do	Lathers	5-day week. Wage controversy	week. Adjusted. Agreed on \$1.25 per hour	dp	Mar. 28	100	10
Sheet-metal workers, St. Louis, Mo	do	Sheet-metal workers.		6-day week. Adjusted. Accepted 124 cents an	Mar. 25	Apr. 1	400	
Bayuk Cigar Co., Bethlehem, Pa	Strikedo	Cigar makersdo.	day	nour increase. Pending.	(') Apr. 1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	558	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Carpenters, Reading, Pa.	do	Carpenters	Asked increase of 174 cents an hour.	A altered of the cond of conde on house	Apr. 5		0,200	1 81
kin, Pa. Red Lion Cipar District, six towns	do	fitters.	Rate of Day for piece-	מחת אם הבחופ מח	(E)	whi.	8,000	
Pennsylvania. Painters, Trenton, N. J.	- op	Painters	work. \$1.50 day increase and	Adjusted. All demands granted	Apr. 1	Apr. 7	350	1
Bricklayers and hod carriers, Terre	Controversy.	Building trades	40-hour week. Wage scales		op	Apr. 5	110	20
Haute, Ind. Asbestos workers, Indianapolis, Ind	Strike	Asbestos workers	Asked 224 cents an hour	cents an hour increase. Adjusted, Increase of 10 cents an	do	Apr. 12	36	12
Cement finishers, Indianapolis, Ind	do	Cement finishers	Asked 22 cents an hour	hour granted,	do	Apr. 21	40	85
Purdue University, Lafayette, Ind	qo	Bricklayers	Asked \$1.50 per hour	Adjusted. Received \$1.37½ cents an hour.	Apr. 2	Apr. 26	75	35

Chamberson Marian

Painters, Orange, N. J.

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40	222	300	150	300	28	135	848	(1)	200	1,025	350	3, 200	20	200	110	12	28 445 90 150	150	46	(1)	3	23, 644	
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	Apr. 2	Apr. 1	Mar. 15	Apr. 10	Mar. 29	Apr. 4	Apr. 8	May 1 Mar. 20	Apr. 1	Mar. 1	Feb. 18	May 10	3	Apr. 1	do	1923. Oct. 30	33333	(1)	(1)	Apr. 24 Feb. 1	(3)	8 8 8 8	
and the Control of th	Adjusted. Received \$1.37½ cents an hour.	Adjusted. Demands granted	Adjusted. Increase of \$4 a week and	Adjusted. Returned. No increase	Adjusted. Returned. No cut intended.	Adjusted. No recognition. 10 cents an hour increase.	Adjusted Miners to work coal pillars.	Pending	Pending. Strike practically lost.		Adjusted. 1-year agreement, 25 cents	Adjusted. 2-year contract. Present scale continued. Company made	Some concessions.	Adjusted. Received \$1.05 per hour	Adjusted. Received \$1.25, effective Apr. 1.	Adjusted. Men reemployed as needed	Pending. No progress.	Adjusted. Accepted State board arbi-	Adjusted. Received from \$1 to \$4 per		. A second or the second of t	5. 无病而而发现而含润润 医甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
Asked 22 cents an hour	Asked \$1.50 per hour	Asked increase, from \$9 to \$10 a day	Asked increase and	Asked 124 cents an hour	Laborers allege cut of 50	Asked 20 cents an hour increase; closed shop;	S-nour day. Dispute relative rock con-	(1) Wages, hours, and work	Asked \$9a day—\$1a day	Asked \$13 and \$11 a day	Asked \$1 a day increase.	Asked 10 cents per hour increase.	Refusal to operate 3	Asked \$1.25 per hour	Asked wage increase	Piecework	Wage cut 15 per cent Materials delayed Wage cut of 20 per cent Wage cut of 40 cents per	Wage rate on piecework.	Asked from \$1 to \$6 a	Asked increase Asked increase from \$9	to \$10 a day. Proposed cut in weekly wage.	6 0 6 6 6 6 8 8 8 8 8 8 8 8 6 6 8 8 8 8	
Cement unishers	Bricklayers	Painters	Tailors	Mason tenders	Miners	Building laborers	Miners	BakersCement workers	Painters	Building trades	Teamsters	Street car men	Weavers	Carpenters	Electrical workers	Molders	Weavers do do Metal polishers	Shoe workers	Bakers	Roofers	Bakery salesmen	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
dp	dp	dp	Controversy.	Strike	do	do	do	op	do	qp	Controversy	Strike	do	do	Controversy	Strike	do do do	Controversy	Threatened	Strike. Strike. Controversy	op	5 5 8 6 8 8 8 8 8 8 8 8	
cement unishers, indianapolis, Ind	Purdue University, Lafayette, Ind	Painters, Orange, N. J.	Tailors, Scranton, Pa.	Mason tenders, Springfield, Mass	Hudson Coal Co., Plymouth and	Isbell-Porter Co., Buffalo, N. Y	Hillside Coal & Iron Co., Avoca, Pa	Liberty Baking Co., Pittsburgh, Pa	Painters, Los Angeles, Calif	Plasterers and structural-iron workers,	Teamsters, Fa.	Pittsburgh Railways Co., Pittsburgh, Pa.	Belding Silk Mills, Northampton,	Carpenters, Indianapolis, Ind	Electrical workers, Indianapolis, Ind	Montpelier Mfg. Co., Montpelier, Ind.	Utopia Silk Co., Paterson, N. J. Pearl Silk Co., Paterson, N. J. Lorain Silk Co., Paterson, N. J. Brown Lamp Works, Columbus, Ohio.	Grass-Golden Shoe Co., Roxbury,	Mass. Bakers, Auburn, N. Y	52 firms of roofers, St. Louis, Mo-	Bakery salesmen, Washington, D. C	Total	

[1379]

1 Not reported.

IMMIGRATION

Statistics of Immigration for March, 1924

By W. W. Husband, Commissioner General of Immigration

The following tables show the total number of immigrant aliens admitted into the United States and emigrant aliens departed from the United States during March, 1924, and from July, 1923, to March, 1924. The tabulations are presented according to the countries of last permanent or future permanent residence, races or peoples, occupations, and States of future permanent or last permanent residence. The last table (Table 6) shows the number of aliens admitted under the per cent limit act of May 19, 1921, from July 1, 1923, to May 7, 1924.

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Pa Po Po Ru Ru Sca Sca Sca

Table 1.—INWARD AND OUTWARD PASSENGER MOVEMENT, JULY, 1923, TO MARCH, 1924

			Arrivals				Departures						
During—	Immigrant aliens admitted	Nonim- migrant aliens ad- mitted	United States citizens arrived	Aliens de- barred	Total arrivals	Emi- grant aliens	Non- emigrant aliens	United States citizens	Total depar- tures				
July to December, 1923. January, 1924. February, 1924. March, 1924.	499, 863 33, 878 29, 901 35, 585	85, 336 10, 476 10, 842 13, 271	173, 156 15, 638 22, 161 25, 146	16, 985 2, 145 1, 851 2, 001	775, 340 62, 137 64, 755 76, 003	44, 299 5, 723 3, 706 4, 202	75, 910 8, 689 7, 880 7, 983	133, 600 20, 817 24, 197 19, 474	253, 809 35, 229 35, 783 31, 659				
Total	599, 227	119, 925	236, 101	22, 982	978, 235	57, 930	100, 462	198, 088	356, 480				

TABLE 2.—LAST PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED TO AND FUTURE PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING MARCH, 1924, AND FROM JULY, 1923, TO MARCH, 1924, BY COUNTRIES

	Imm	igrant	Emi	grant
Country	March, 1924	July, 1923, to March, 1924	March, 1924	July, 1923, to March, 1924
Albania.	6	232	25	203
Austria	96	7, 392	7	143
Belgium	67	1, 859	19	370
Bulgaria	25	518	12	18
Czechoslovakia	58	13, 302	111	1.11
Denmark .	467	4, 587	25	38
Esthonia	37	414	40	- 30.
931 3 3	8	3, 590	2	00
Finland France, including Corsica	306	5, 589	67	22
				93
GermanyGreat Britain, Ireland:	298	74, 076	84	65
Great Britain, Ireland:	154	00 704	400	0.00
England	154	23, 794	186	3, 22
Ireland	27	16, 905	50	91
Scotland	34	33, 269	19	59
Wales	5	1, 512	1	4.
Greece	111	4, 379	621	5, 49
Hungary	94	5, 403	14	36
Italy (including Sicily and Sardinia)	3, 022	49, 340	1,069	18, 10
Latvia	7	1, 444		5
Lithuania	24	2, 265	16	25
Netherlands	31	3, 644	13	24
Norway	864	11, 390	37	58
Poland	174	28, 313	146	1.85
Portugal (including Azores and Cape Verde Islands)	24	2, 586	94	2, 71
Rumania	71	10, 931	57	80
Russia	84	12, 368	16	40
Spain (including Canary and Balearie Islands)	47	721	189	2.11
Sweden	635	18, 124	27	53
1. 3 3	40	3, 655	27	24
Switzerland	7	1, 430		8
Vanandario			5	1, 43
Yugoslavia	111	5, 634	117	1, 43
Other Europe	6	310	1	2
Total Europe	6, 949	348, 976	3, 058	44, 32

TABLE 2.—LAST PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED TO AND FUTURE PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING MARCH, 1924, AND FROM JULY, 1923, TO MARCH, 1924, BY COUNTRIES—Concluded

	Imm	igrant	Emigrant	
Country	March, 1924	July, 1923, to March, 1924	March, 1924	July, 1923, to March, 1924
China	264 492 1 53 15	5, 826 3, 871 134 2, 611 2, 741 251	358 192 6 32 4 7	2, 969 1, 836 125 357 157 55
Total Asia	838	15, 434	599	5, 499
Africa	30 24 3 13, 474 107	833 569 41 146, 780 1, 316	1 36 1 139 43	86 363 29 1, 862 418
Mexico	12, 954 444 761	66, 104 7, 150 11, 969 55	106 61 158	1, 528 812 3, 009 2
Grand total	35, 585	599, 227	4, 202	57, 930

TABLE 3.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING MARCH, 1924, AND FROM JULY, 1923, TO MARCH, 1924, BY RACES OR PEOPLES

	Imm	igrant	Emigrant		
Race of people	March, 1924	July, 1923, to March, 1924	March, 1924	July, 1923, to March, 1924	
African (black)	545	8, 279	41	946	
Armenian	60	2,656	4	36	
Bohemian and Moravian (Czech)	52	6, 607	76	97/	
Bulgarian, Serbian, and Montenegrin	68	2, 327	51	1, 31	
Chinese	232	3, 519	343	2, 89	
Croatian and Slovenian	88	3, 989	70	146	
Cuhan	76	1,002	37	73	
Dalmatian, Bosnian, and Herzegovinian	5	270	4	14	
Dutch and Flemish	235	6, 881	44	69	
East Indian	9	105	3	117	
English	4, 800	73, 304	300	4, 956	
Finnish	64	3, 544	3	26	
French	3, 803	36, 947	82	996	
German	900	92, 202	123	1, 056	
Greek	124	4, 688	627	5, 537	
Hebrew	907	46, 746	22	170	
irish	1, 411	36, 019	62	1, 093	
Italian (north)	361	10, 552	140	1, 346	
Italian (south)	2, 842	41, 102	935	16, 894	
Japanese	480	3, 552	190	1, 800	
Korean.	5	53	100	20	
Lithuanian	27	1,890	15	290	
Magyar	103	6, 930	26	400	
Mexican	12, 855	64, 681	106	1, 48	
Pacific Islander	14,000	11	200	3, 30	
N 11 8	225	18, 666	140	1, 883	
	137	3, 356	96		
Portuguese	49	1, 530	53	2, 82	
Rumanian	161	8, 664	22	508	
Russian (Promish)	161	1, 938	10	12	
Ruthenian (Russniak)			115	00.1	
Scandinavian (Norwegians, Danes, and Swedes)	2, 323 1, 787	38, 255	51	1,760	
Scotch		52, 512	27	907	
Slovak	17	5, 460 2, 777		23	
panish	163		226	2, 63	
Spanish American	185	2, 035	59	643	
yrian	54	1, 377	37	337	
Turkish	6	319	- 6	218	
Welsh	98	2, 257		58	
West Indian (except Cuban)	107	1, 440	29	486	
Other peoples	60	785	26	32	
Total	35, 585	599, 227	4, 202	57, 930	
Male	22, 687	361, 765	3, 382	43, 894	
Female	12, 898	237, 462	820	14, 036	

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Total lepartures

253, 809 35, 229 35, 783 31, 659 356, 480 D TO ROM RCH,

TABLE 4:—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING MARCH, 1924, AND FROM JULY, 1923, TO MARCH, 1924, BY STATES OR TERRITORIES

Marilla III	Imm	igrant	Emigrant	
State	March, 1924	July, 1923, to March, 1924	March, 1924	July, 19 to March 1924
labama.	11	397	4	-
laska	11	229	4	
rizona	952	10, 179	22	
rkansas	10	145	2	
alifornia	3, 962	45, 020	431	4,
olorado	104	1, 340	20	
onnecticut	456	11, 499	60	1,
DelawareDistrict of Columbia	43	426	5	
lorida	200	1, 330 3, 014	60	
eorgia	14	383	10	1,
awaii	208	1, 581	44	
laho	65	875	5	
linois	1, 225	42, 514	221	3,
ndiana	107	4, 875	26	,
wa	108	3, 556	18	
ansas	59	1, 384	2	
entucky	19	522	1	
ouisiana	121	1, 100	34	
aine	1, 049	8, 997	6	
arylandassachusetts	2, 978	2, 830	17 288	-
ichigan	2, 966	49, 944	151	5,
innesota	408	9, 434	42	1,
ississippi	4	448	1	
issouri	121	4, 094	17	
ontana	95	1, 584	14	
ebraska	49	2, 313	7	
evada	13	209	1	
ew Hampshire	578	5, 482	16	
ew Jersey	622	28, 863	154	2
ew Mexico	179	1, 051	1 000	00
ew Yorkorth Carolina	5, 421	146, 921 241	1, 630	22,
orth Dakota	81	1, 585	10	
110	554	22, 300	136	2,
dahoma	13	452	5	-
egon	356	5, 042	39	
nnsylvania	894	44, 594	352	5,
nilippine Islands		1 .		
orto Rico	15	200	3	-
node Island	343	6, 712	47	1,
uth Carolina	1	136	2	
uth Dakota	45	908 342	9 5	
	9, 192	41, 415	56	
ah	18	974	21	
rmont	247	2, 453	3	
rginia_	147	1, 864	. 11	
rgin Islands	1	10		
ashington	1, 173	15, 780	120	1,
est Virginia	50	1, 884	25	
isconsin	191	8, 772	18	
yoming	28	520	12	

TABLE 5.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING MARCH, 1924, AND FROM JULY, 1923, TO MARCH, 1924, BY OCCUPATIONS

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	Imm	igrant	Emigrant		
Occupation	March, 1924	July, 1923, to March, 1924	March, 1924	July, 1923, to March, 1924	
Professional:		-			
Actors	48 18	833 380	9	6	
Clergy	115	1, 661	11	26	
Editors	6	47	2	20	
Electricians	128	3, 386		4	
Engineers (professional)	172	4, 186	11 3	22	
Lawyers Literary and scientific persons	14 24	178 610	5	3	
Musicians	65	1, 282	4	5	
Officials (Government)	39	436	15	12	
Physicians	64	995	5	•	
Sculptors and artists Teachers	15 182	333 2, 809	1 13	20	
Other professional	162	3, 293	32	26	
Total	1, 052	20, 429	112	1, 46	
rilled:					
Bakers	106	3, 277	6	13	
Barbers and hairdressers Blacksmiths	75 85	2, 355 2, 991	16	14	
Bookbinders	6	257	1		
Brewers	2	34			
Butchers	63	2, 571	8	1	
Carpenters and joiners	20 688	433 14, 182	22	44	
Cigarette makers	1	42	22	31	
Cigar makers	7	239	11	25	
Cigar packers	4 104	20			
Clerks and accountants Dressmakers	1, 121 106	21, 404 3, 413	55 5	71	
Engineers (locomotive, marine, and stationary)	64	3, 090	9		
Furriers and fur workers	10	285	2	1	
Gardeners	53	1, 086 286	3	1	
Hat and cap makersIron and steel workers	94	6, 983	10		
Jewelers	26	401	3	1	
Locksmiths	2	3, 607			
Machinists	273 480	5, 880 7, 606	12 20	1'2	
Mariners	170	4, 908	18	. 1	
Mechanics (not specified)	310	7, 401	21	10	
Metal workers (other than iron, steel, and tin)	34	1, 045	3		
Millers	12 17	500 596			
Milliners Miners	140	6, 468	57	6	
Painters and glaziers	146	3, 371	6		
Pattern makers	7	313			
Photographers	9	400	1		
Plasterers	40 87	593 1, 812	2		
Printers	72	1, 502	4		
Saddlers and harnessmakers	7	302	1		
Seamstresses	72	2, 128	5		
ShoemakersStokers	96 56	4, 365 868	17	2	
Stonecutters	36	506	1	0 - 1	
Tailors	125	6, 255	29	2	
Tanners and curriers	5	175	1		
Textile workers (not specified)	21 18	437 667	1		
Tinners	18	27	1		
Upholsterers	19	337	1		
Watch and clock makers	6	495			
Weavers and spinners	44	2, 590 125	33	3	
Wheelwrights	17	456	2		
Other skilled	230	4, 970	16	1	
-	5, 087	134, 054	412	4, 9	

TABLE 5.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING MARCH, 1924, AND FROM JULY, 1923, TO MARCH, 1924, BY OCCUPATIONS—Concluded

margine 1	Imm	igrant	Emigrant	
Occupation	March, 1924	July, 1923, to March, 1924	March, 1924	July, 1923, to March, 1924
Miscellaneous: Agents Bankers Draymen, hackmen, and teamsters Farm laborers Farmers Fishermen Hotel keepers Laborers Manufacturers Merchants and dealers Servants Other miscellaneous	111 4 80 920 809 206 13 9, 870 16 454 1, 138 1, 135	1, 754 140 1, 554 24, 869 17, 025 2, 571 155 89, 548 461 9, 766 47, 216 22, 535	19 4 1 10 83 7 4 2, 194 6 6 222 95 137	100 70 55 206 * 1, 188 58 24 29, 094 57 1, 942 1, 702 2, 886
Total	14, 756	217, 594	2, 782	37, 39
No occupation (including women and children)	14, 690	227, 150	896	14, 16
Grand total	35, 585	599, 227	4, 202	57, 93

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TABLE 6.—STATUS OF THE IMMIGRATION OF ALIENS INTO THE UNITED STATES UNDER THE PER CENT LIMIT ACT OF MAY 19, 1921, AS EXTENDED BY PUBLIC RESOLUTION NO. 55, SEXTY-SEVENTH CONGRESS, APPROVED MAY 11, 1922, JULY 1, 1923, TO MAY 7, 1924

Country or region of birth	Maximum monthly quota	Admitted May 1-7, 1924	Annual quota	Admitted July 1 to May 7	Balance for year 1
Albania	58		288	288	(2)
Armenia (Russian)	46		230	175	1.53
Austria	1, 468		7, 342	7, 342	(3)
Belgium	313		1, 563	1, 563	(2)
Bulgaria			302	302	(2)
Czechoslovakia	2, 871		14, 357	14, 357	(2)
Danzig	60	*********	301	301	(6)
	1, 124				(2)
Denmark Esthonia		41	5, 619	5, 619	
	270	41	1, 348	815	1 530
Finland	784		3, 921	3, 921	(2)
Fiume	14	1	71	61	10
France	1, 146	66	5, 729	5, 405	1 250
Germany	13, 521		67, 607	67, 607	(2)
Great Britain, Ireland			77, 342	77, 342	(3)
Greece			3, 063	3, 063	(2)
Hungary		13	5, 747	5, 745	(2)
Iceland	15		75	31	144
Italy	8, 411		42, 057	42, 057	(2)
Latvia	308		1, 540	1, 540	(2)
Lithuania	526		2, 629	2, 629	(2)
Luxemburg			92	92	(2)
Netherlands	721		3, 607	3, 607	(2)
Norway	2, 440		12, 202	12, 202	26
90 1 1	6, 195		30, 977	30, 977	1 2
	493		2, 465	2 465	1 %
					1 22
Rumania	1, 484		7, 419	7, 419	1 52
Russia	4, 881		24, 405	24, 405	(1)
Spain	182		912	912	(2)
Sweden	4,008		20, 042	20, 042	(2)
Switzerland	750		3,752	3, 752	(3)
Yugoslavia	1, 285		6, 426	6, 426	(3)
Other Europe	17		86	86	(2)
Palestine	12		57	57	(2)
Syria.	177		882	882	(2)
Turkey	531		2, 654	2, 654	(2)
Oth r Asia	19		92	92	(2)
Africa	21		104	104	(2)
Egypt	4		18	18	(2)
Atlantic Islands	24		121	121	(2)
Australia	56		279	279	(2)
New Zealand and Pacific Islands	16	**********	80	80	(2)
	-				-
Total	71, 561	121	357, 803	356, 835	88

¹ After all pending cases for which quotas have been granted and admissions charged to the quota during the current fiscal year have been deducted from the annual quota.

² Annual quota exhausted.

FACTORY AND MINE INSPECTION

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, 1923, to

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29, 094 56 1, 942 1, 703 2, 886 37, 390 14, 167

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Virginia 1

THE activities of the inspection service of the Virginia Bureau of Labor and Industrial Statistics, exclusive of coal-mine inspection, are given below for the years ending September 30, 1922, and September 30, 1923:

ACTIVITIES OF FACTORY INSPECTORS IN VIRGINIA 1922 AND 1923

	Year er	nding-		Year er	nding—
Item	Sept. 30, 1922	Sept. 30, 1923	Item	Sept. 30, 1922	Sept. 30, 1923
Total inspections Employees: Male Female Orders issued: Safety appliances Sanitary	3, 045 45, 509 29, 492 773 202	4, 947 74, 515 41, 641 1, 345 286	Corrections without recourse to law: Child labor. Safety appliances. Fire escapes. Sanitary. Seats for females.	117 589 23 193	913 130 271 48
Fire escapes Violations: Child labor Ten-hour law Seats for females	23 254 16	717 251 48	Prosecutions: Fire escapes Child labor Ten-hour law	137 16	668 25

Flagrant violations of the sanitary law were found in the matter of toilets. Upon receiving an order for compliance with the law, employers usually correct the insanitary conditions; but in cases of failure to do so, the best the inspection service can do is to issue other sanitation orders to be carried out in 28 days. Under the law 28 days' notice is required "before legal action can be taken."

Complaints have been received at the division of women and children relative to illnesses resulting from fumes, especially sulphuric acid fumes. There is no legal provision, however, for the elimination of this evil. The division can only use persuasion in this connection.

Coal-Mine Inspection

During the year ending June 30, 1922, coal-mine inspections numbered 316; in the previous year, 348. The number of recommendations made in the latter year was 1,232—88 more than in the first year of the biennium covered by the report.

There were 23 fatal and 648 nonfatal accidents in Virginia mines in the year ending September 30, 1922; in the following year 40 fatal and 1,025 nonfatal accidents.

Italy 2

THE Italian factory inspection service created by the law of December 22, 1912, has been reorganized by a royal decree of December 30, 1923, published in the Gazzetta Ufficiale of March 14, 1924.

¹ Virginia. Bureau of Labor and Industrial Statistics. 25th and 26th Annual Reports. Richmond, 1923.

² Confederazione Generale dell'Industria Italiana. L'Organizzazione Industriale, Rome, Mar. 15, 1924, p. 2.

The new decree assigns to the factory inspectors the following duties:

(a) To see to the enforcement of all labor and accident prevention laws in industrial and commercial establishments, offices, and agriculture and in general everywhere where salaried employees or wage workers are employed.

(b) To collect and transmit to the Ministry of National Ecoromy news and information as to the condition and development of national production and in general all information concerning industry and labor that the ministry may request.

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(c) To perform all the other duties prescribed by the law of December 22, 1912, or such as the Ministry of National Economy may specially assign to them.

Thirteen inspection districts are established by the decree, with headquarters in Turin, Genoa, Padua, Trieste, Milan, Brescia, Bologna, Florence, Rome, Naples, Bari, Catania, and Cagliari. At the head of each district is a chief district inspector. Inspection offices are, moreover, to be established in the capital of each Province and these offices are to be in charge of a principal inspector or of an assistant inspector. To the various district inspection offices are also assigned medical inspection officers. Where the exigencies of the service require it the chief district inspectors and the inspectors residing in the individual Provinces may employ suitable persons to assist them. Such assistants can, however, be employed for only a limited time, and when their contract expires it may be renewed for a period not to exceed five years. The number of special assistants in the inspection service proper may never exceed 120, and those employed in a clerical capacity may not exceed 40.

The conditions for admission to the factory inspection service and for subsequent promotion are specified in articles 15 and 19 of the royal decree of November 11, 1923. A number of positions are to be reserved for graduates in medicine, agricultural science, physics, and chemistry

The salaries and other costs of special temporary assistants employed by the chief inspectors are to be borne by the social insurance institutes.

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Illinois

REPORT on volume of employment in Illinois in March, 1924, A is given on pages 126 and 127 of this issue of the Monthly Labor REVIEW.

EMPLOYMENT conditions in Iowa industries in March, 1924, are shown on page 128 of the present number of the Monthly Labor REVIEW.

Maryland

FOR the percentage changes in the number of employees and in the payrolls of various industries of Maryland from March to April, 1924, see table, page 129.

Massachusetts

JOLUME of employment statistics for March, 1924, for Massachusetts are published in the section on recent employment statistics, page 130. Earnings of male and female workers in the State for the same month are given on page 90.

New York

TABLE on page 131 shows recent fluctuations in employment in selected industries in New York State.

Virginia

HE following data regarding industry in Virginia are taken from the 25th and 26th annual reports of the Bureau of Labor and Industrial Statistics of that State for the years ending September 30, 1922, and September 30, 1923:

SUMMARY OF VIRGINIA INDUSTRY FOR THE YEARS 1921 AND 1922

Item	1921	1922
Number of plants reporting (Tapital invested) Value of output Amount paid in salaries to salaried employees Amount paid in wages to wage earners Total amount paid in wages and salaries Number of salaried employees: Male Female Total	1, 938 \$364, 698, 478 \$463, 825, 895 \$9, 417, 605 \$69, 001, 983 \$78, 419, 588 5, 909 1, 930 7, 839	\$368, 072, 951 \$471, 840, 736 \$8, 693, 834 \$69, 125, 023 \$77, 818, 857 6, 111 1, 524 7, 635
Number of wage earners: Male	80, 982 24, 662 105, 644	69, 466 23, 980 93, 446

Does not include salaries of salaried employees in building trades, mines, and quarries.

Does not include wages paid in building trades, mines, or quarries.

Does not include salaried help employed in building trades, mines, and quarries.

A calculation based on figures in the above table shows that the wage bill for 1921 was equivalent to 14.9 per cent of value of the output of all the industries reporting. The wage bill for 1922 was equivalent to 14.7 per cent of the value of output for that year. In this connection attention is called to the last column in the second section of the following table. In this column the percentage of the wage bill to value of output varies strikingly from industry to industry, ranging from 3.7 per cent in abattoirs, meats, packing, etc., to 37.1 per cent in sawmills.

SUMMARY OF CERTAIN LEADING INDUSTRIES IN VIRGINIA IN 1922

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Industry	Number of plants report- ing	Capital invested	Value o output		Total number of wage earners
Abattoirs, meat packing, etc	11 33 252 42 111 39 9 30 167 69 88 3 12 24 82	\$5, 561, 658 31, 927, 782 6, 297, 012 8, 293, 503 5, 703, 995 46, 496, 455 5, 799, 337 10, 590, 706 3, 850, 612 7, 172, 846 5, 705, 955 13, 090, 921 13, 461, 653 15, 470, 919 8, 606, 719 41, 781, 528 11, 124, 238	2 31, 682, 68 2 11, 803, 65 11, 803, 65 15, 316, 56 16, 88, 803, 30 16, 26, 086, 73 17, 40, 12, 12, 13, 14, 14 12, 685, 34 10, 274, 46 10, 274, 56 10, 274, 76 10, 201, 63 10, 201, 63 101, 700, 73	93 78 192 198 264 265 265 265 265 27 82 27 28 29 29 201 201 202 201 202 201 202 203 204 205 205 205 205 205 205 205 205	1, 250 7, 970 1, 772 2, 557 9, 027 1, 755 2, 748 1, 362 1, 792 5, 974 5, 363 5, 831 1, 925 13, 609 4, 258
Industry	Amount paid in salaries to officials	Amount paid in salaries to salaried employees	Amount paid in wages to wage earners	Total amount paid in wages and salaries	Per cent of value of output paid in wages
Abattoirs, meat packing, etc Cotton mill products Fertilizer and guano Flour and grist mill products Furniture, mattresses, etc Iron and machinery Lime, cement, and limestone. Paper and pulp mill products. Peanut cleaning establishments, coffee roasting, etc Printing and engraving. Sash, doors, and blinds. Saw mill products. Shipbuilding. Silk mill products. Tannery products and tanning extracts. Tobacco and its products Wood products (baskets, boxes, crates, and shooks)	213, 299 206, 788 267, 468 183, 644 1, 117, 314 156, 708 180, 022 199, 476 659, 634 352, 064 249, 947 77, 328 124, 015 191, 878 525, 952	\$549, 205 187, 152 312, 146 185, 346 152, 270 1, 377, 811 80, 589 315, 970 184, 495 1, 015, 347 283, 120 131, 781 573, 315 349, 052 139, 793 669, 710 294, 190	\$1, 029, 257 6, 832, 736 1, 015, 484 782, 346 1, 904, 445 9, 249, 561 1, 321, 955 2, 198, 450 618, 321 2, 680, 587 1, 778, 035 3, 443, 070 5, 206, 366 4, 751, 828 1, 102, 102 6, 928, 097 2, 574, 569	\$1, 818, 238 7, 233, 187 1, 534, 418 1, 235, 160 2, 240, 350 11, 744, 686 1, 559, 252 2, 694, 442 1, 002, 292 4, 355, 568 2, 413, 190 3, 824, 798 5, 857, 009 5, 224, 895 1, 433, 773 8, 123, 759 3, 235, 126	3.7 21.6 8.6 5.1 21.6 35.5 24.4 12.1 4.8 27.2 17.3 37.1 31.9 23.9 10.8 6.8 21.6

¹ Not including officials.

Accounts of certain activities of the Virginia bureau of labor and industrial statistics appear in the sections on child labor and factory and mine inspection, pages 97 and 199.

CURRENT NOTES OF INTEREST TO LABOR

Attempt of Brazilian Government to Reduce the Cost of Living

A RECENT communication from the United States consul at Rio de Janeiro, Brazil, states that the President of Brazil promulgated a decree on March 19, 1924, which provides that action be taken to reduce the present excessive costs of living in Brazil and especially in Rio de Janeiro. Prices of milk, meat, fish, rice, beans, flour, potatoes, sugar, and coffee are covered by this decree. A committee of governmental officials appointed for the purpose of discussing steps to be taken by the Government to combat these prevailing high food prices concluded that a large percentage of the price increases have been due to activities of food profiteers and speculators.

Emergency grocery stores are to be established and the operation of curb markets is to be encouraged according to the decree, for the purpose of selling staple food products at the lowest possible prices. The decree authorizes the Minister of Transportation and Public Works to make any other regulations he considers essential for a strict enforcement of the present decree, which became effective on March 19, 1924.

Industrial Notes from China

THE Chinese Economic Bulletin, April 5, 1924, which is compiled and published by the Chinese Government Bureau of Economic Information at Peking, contains the following items of information:

Railway Operation

The Kiaochow-Tsinan Railway, with a length of some 250 miles including a 10-mile feeder passing through certain coal-mining districts, has recently been taken over by the Chinese after having been operated by the Japanese. The gross operating revenue of the line in 1923 was \$9,800,000, about one-third of which came from the short line running through the coal section. The railway system has about 100 locomotives, 200 passenger cars, and 1,600 freight The use of new American locomotives which carry a heavy dead weight has resulted in damage to about one-tenth of the 1,000 bridges on the line. Under the former management there was much discrimination in the freight rates on coal, Japanese shippers paying lower rates than Chinese and high discounts being granted to mining companies through special contracts. In order to unify rates the railway administration has adopted special freight rates for coal. The rates vary according to the destination of the shipments, distinguishing between coal intended for export, coal transported between stations, and that shipped within the suburbs of Tsingtao. The ordinary rate is 1.2 cents per ton-kilometer and the export rate \$2.10 per ton. The total number of employees on the railroad is 5,923, of whom 1,480 are officials. This is an increase of 512 officials

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over the number employed when the line was under Japanese control and a total increase of 979 employees under the new administration.

Compulsory Education

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In the Province of Shensi the primary schools are at present largely maintained by private funds and there is only a small attendance of the children of the villages. The provincial authorities have planned to adopt a system of compulsory education. Commercial taxes and a surtax on land as well as public funds will be used to support these schools and a board elected in each district will administer the school fund. Normal schools will be established and a college known as Northwestern University is now being organized. It is expected that the latter institution will draw students from other Provinces.

Establishment of a Standardization Office in Norway

IN OCTOBER, 1923, the Norwegian Industrial Association took steps toward the standardization in Norway of all industrial commodities. To carry out this work, a standardization committee was established with the help of Government and private subscriptions.¹

Commerce Reports for April 28, 1924, states that a standardization office has recently been established by the Norwegian Government to investigate standards at home and abroad for the purpose of adopting those that are applicable to Norwegian industries. Efforts will be made to attain greater uniformity in the dimensions, patterns, and quality of the products in Norway and to abolish unnecessary variations. Attention will first be given to the standardization of paper sizes and the uniform execution of technical drawings.

It is stated that subsequently all other products will be considered with the idea of reducing production costs and giving the consumer goods of greater practical usefulness.

¹ See Monthly Labor Review, January, 1924, p. 205.

PUBLICATIONS RELATING TO LABOR

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Michigan (Gogebic County).—Inspector of Mines. Annual report for the year ending September 30, 1923. [Ironwood, 1923?] 38 pp.

The average number of men employed for the full working year of 300 days in the 15 mines covered by the report was 4,793. A total of 1,657 accidents occurred during the year, 345 of which were compensable. Of the compensable accidents, 11 were fatal, 37 resulted in lost time of more than 3 months, and 297 lasted less than 3 months. The average number of compensable days per reported accident was 24.4 and the average number of compensable accidents per 100,000 man-days was 23.8.

New York.—Department of Labor. Court decisions on workmen's compensation law, November, 1922-February, 1924. Albany, 1924. 135 pp. Special bulletin No. 123.

This bulletin is the fifth in a series of special bulletins presenting court decisions and opinions upon subjects other than constitutionality and coverage, these two points being discussed in another series of bulletins. The subject matter presented in the current issue is distributed under 18 principal heads, these being subdivided variously so that it is possible to find grouped the current opinions and rulings on any one of a number of the more important points involved in compensation legislation and administration. Taken together the two series of bulletins comprise an important body of precedents established by one of the most important industrial States, whose judicial interpretations are highly respected by the courts of other States.

VIRGINIA.—Bureau of Labor and Industrial Statistics. Twenty-fifth and twenty-sixth annual reports. Part I, October 1, 1921, to September 30, 1922; Part II, October 1, 1922, to September 30, 1923. Richmond, 1923. 224 pp.

Data from this report are published on pages 97, 199, and 201, of this issue of the Monthly Labor Review.

United States.—Department of Agriculture. Conditions affecting the demand for harvest labor in the wheat belt, by Don D. Lescohier. Washington, 1924. 46. pp. Bulletin No. 1230.

In order to make a more accurate estimate of the labor needed in the wheat belt so that the requisite number of men may be attracted to these localities, the Bureau of Agricultural Economics made a study of conditions in 66 of the most important wheat-growing counties of the United States. The various factors influencing the demand for additional workers in harvest and threshing periods were studied, including the different kinds of machinery used, different methods of farm management, and different systems of cropping. Tables are given in this report showing the total acreage of farms, the percentage of grain acreage, the number of laborers per 100 acres, the length of the harvest period by size of farms, the labor turnover, methods of obtaining harvest labor, number of workers placed by Federal and State employment offices, and average wages and hours.

Department of Commerce. Bureau of the Census. Children in gainful occupations at the Fourteenth Census of the United States. Washington, 1924. 276 pp.

Contains the child labor statistics of the Fourteenth Census, with an introductory analysis, and a special detailed analysis of the figures relating to thirteen occupations regarded as of particular importance. Some of the data relating to the general child labor situation are summarized on pages 95 and 96 of this issue of the Monthly Labor Review.

UNITED STATES.—Department of the Interior. Bureau of Mines. Stone dusting or rock dusting to prevent coal-dust explosions, as practiced in Great Britain and France, by George S. Rice. Washington, 1924. iv, 57 pp. Bulletin 225.

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Gives a study of foreign experiments in the use of rock dust to prevent explosions of coal dust, based on the author's personal observation and on published records, and discusses the application to American mines of the results of the European experience.

— Department of Labor. Bureau of Labor Statistics. Proceedings of the eleventh annual meeting of the International Association of Public Employment Services, held at Toronto, Canada, September 4-7, 1923. Washington, 1924. vi, 56 pp. Bulletin No. 355. Employment and unemployment series.

This bulletin contains the addresses delivered at the eleventh annual meeting of the association. The conference was attended by representatives of the Federal and State employment services of the United States and by Federal and Provincial representatives of the Canadian Employment Service, as well as by many other persons interested in employment and unemployment problems. The program was divided into four topics: Public employment service, Unemployment, Rehabilitation, and Migratory labor. There was considerable discussion at the business session of the proposed amalgamation with the International Association of Governmental Labor Officials, and a committee to meet with a similar committee from the other organization to formulate a satisfactory basis for the confederation of the two associations was authorized.

--- Railroad Labor Board. Average daily wage rates of railroad employees on Class I carriers. Washington, 1924. 12 pp. Wage series, report No. 4.

Figures from this report are published on pages 86 to 90 of this issue of the Monthly Labor Review.

Official—Foreign Countries

Australia.—Court of Conciliation and Arbitration. A report of cases decided and awards made, including conferences convened by the president and deputy presidents during the year 1922. Melbourne [1923?]. xxiv, 1530 pp. Commonwealth arbitration reports, Vol. 16.

--- (New South Wales).—Bureau of Statistics. Official year book, 1922. Sydney, 1924. 740 pp.

Gives a résumé of the history and development of New South Wales, and statistics and descriptive text dealing with various aspects of the industrial, commercial, and agricultural life, Government organization and activities, and the like

-- (Western Australia).—Government Statistician. Pocket year book, 1924. Perth, 1924. 104 pp.

A small compendium of statistical information including the subjects of building, cooperative, and friendly societies, employment, wages, immigration and emigration, index numbers of purchasing power of money, etc.

Belgium.—Ministère de l'Industrie et du Travail. Conseil Supérieur du Travail. Douzième session, 1920-1923. Vol. I. Brussels, 1923. 517 pp.

Volume 1 of the proceedings of the twelfth session of the Superior Labor Council of Belgium, 1920 to 1923. Special reports were presented on the application of the law of June 14, 1921, relating to the 8-hour day and the 48-hour week, the law of July 17, 1905, on Sunday rest in industrial and commercial enterprises, and the Government bill regulating home work.

Inspection du Travail. Rapports annuels 23me année (1922). Brussels, 1923. 299 pp.

The twenty-third annual report of the labor inspection service of Belgium. The report covers accidents, hours of work, work of women and children, factory regu-

lations, health and safety, etc. The results of the inspections are reported by provinces.

Belgium.—Ministère de l'Industrie et du Travail. Office du Travail. Annuaire de la législation du travail, années 1914 à 1919. Tome II. Brussels, 1923. xvi, 536 pp.

This volume contains the text of labor laws and decrees promulgated in France and Great Britain during the years 1914 to 1919.

Canada.—Commission to inquire into the industrial unrest among the steel workers at Sydney, N. S. Report. Ottawa, 1924. 24 pp. Printed as a supplement to the Labor Gazette, February, 1924.

Among the conclusions and recommendations made by the commission are the following:

Working hours have been excessive in certain of the company's departments under the two-shift system.

Prompt and earnest attention should be given to the abolition of the 24-hour change-over period and the 7-day week.

Careful consideration should be given to the matter of establishing the 3-shift plan (8 hours per shift) in the departments where the processes are continuous, and a maximum of 10 hours per day for other workers.

The company should discuss with employees' representatives the question of using some of the surplus acquired in prosperous years to tide the shareholders and employees over periods of industrial depression when lowered wage rates are being contemplated and irregular employment is in prospect.

In case the preceding recommendation is not acted upon, an investigation of what is done with the company's surplus funds should be made by some competent authority.

— (Nova Scotia).—Department of Public Works and Mines. Factories Inspector. Annual report for year ended September 30, 1923. Halifax, 1924. 24 pp.

It is stated in the above publication that the number of accidents in the factories of Nova Scotia for the year covered by the report was 1,422, including 9 fatalities. In the preceding year there were 1,326 accidents, of which 9 were fatal.

France.—Ministère du Travail. Statistique Générale de la France. Statistique annuelle des institutions d'assistance, années 1920 et 1921. Paris, 1923. li, 128 pp.

A statistical report on the operation of various institutions for assistance in France for the years 1920 and 1921, including statements of relief granted for old-age and invalidity, care of orphans and abandoned children, maternity allowances, and assistance to large families.

GREAT BRITAIN.—[Exchequer and Audit Department.] Unemployment. Statistics relating to financial provision for relief of unemployment (including postwar resettlement of ex-members of His Majesty's forces) from the armistice. London, 1924. 12 pp. Cmd. 2082.

The approximate amounts allotted to various unemployment relief schemes were as follows:

46 1010 1101	
Training and resettlement	1 £102, 000, 000
Unemployment insurance	42, 500, 000
Unemployment grants committee	
Ministry of Transport programs:	
Resettlement	9, 250, 000
Acceleration of road schemes	8, 250, 000
Miscellaneous	1, 250, 000
Land settlement	2, 250, 000
Women's training, etc	500, 000
Total	170, 500, 000

¹ Pound sterling at par=\$4.8665. Exchange rate varies.

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The greater part of the amount appropriated for training and resettlement went for the out-of-work donation of the early postwar period, only about £35,000,000 being devoted to training. A somewhat detailed statement is given of the income and expenditures of the unemployment insurance fund, showing that £154,874,000 has been paid out in benefits, and that of the income during this period, which (apart from resources on hand, interest, and loans) amounted to £141,837,000, the Government contributed 26.8 per cent, the employers 38.3 per cent, and the employees 34.9 per cent.

From the time of the armistice the net amount expended for training unemployed women was £448,022, of which the Government contributed 56 per cent, while for the training of unemployed juveniles it spent £100,900.

In addition to the amounts thus contributed by the central Government, the poor-law authorities, during the period from the armistice up to January 26, 1924, gave in relief to "persons ordinarily engaged in some regular occupation and their dependents" £24.890,195.

GREAT BRITAIN.—Home office. Committee on compensation for silicosis. First report, dealing with the refractories industries (silicosis) scheme, 1919. London, 1924. 71 pp.

The industries covered by the silicosis compensation scheme are those engaged in getting and manipulating highly siliceous materials used in the manufacture of refractory bricks and other articles for lining furnaces. Employees in these industries developing silicosis as a result of exposure to silica dust have been eligible for workmen's compensation since February 1, 1919. During the five years in which the scheme has been in operation compensation has been paid in 170 cases. The present report discusses briefly the causation of silicosis and its effect on workers; conditions which led to the enactment of the workmen's compensation (silicosis) act, 1918, especially in relation to the refractories industries; and a study of defects in the provisions and administration of the act. result of the study the committee recommends certain changes in the scheme, including better provisions for medical examination and for radiographic examinations, suspension from further employment in these industries of workmen found to be suffering from tuberculosis, and provision of a specific penalty for employers who continue to give employment to any workman who has been suspended under the scheme. The appendixes contain the text of the silicosis act, 1918; the workmen's compensation act, 1906; a financial statement of the refractories industries compensation fund; and an account of the provisions for dealing with miners' phthisis in South Africa.

INTERNATIONAL LABOR OFFICE.—Russia. Orders: Hygiene and Safety. Geneval [19237]. 43 pp. Legislative series, 1922.—Russ. 2.

This pamphlet contains the text of orders of the People's Labor Commissariat relating to the protection of workers in bristle and brush industries, manufacture of mineral salts and acids, the construction and operation of lifting apparatus, clothing industry, agriculture, fur industry, tobacco factories, peat works, paper industry, and manufacture of chrome salts.

Regulations: Assessment and disputes committees. Geneva [1923?].

S pp. Legislative series, 1922—Russ. 5.

An order of the People's Labor Commissariat respecting the organization of assessment and disputes committees in State, public, and private institutions.

The text of the regulations concerning the working day and the calculations of the hours of work for wage-earning and salaried employees in the transport industry, and the hours of work in hospitals, sanatoria, and veterinary institutions are published in this pamphlet.

Sweden.—[Socialdepartementet.] Pensionsstyrelsen. Allmänna pensions försäkringen år 1922. Stockholm, 1923. 20 pp. Sveriges officiella statistik. Försäkringsväsen.

Report of the Swedish Pensions Board on compulsory old-age and invalidity insurance in Sweden. Certain figures from this report are given in the article on pages 160 and 161 of this issue of the Monthly Labor Review.

—— Socialstyrelsen. Arbetartillgång, arbetstid och arbetslön inom Sveriges jordbruk år 1922. Jämte specialundersökning rörande vissa löne- och arbetsförhållanden (Del I). Stockholm, 1924. 122 pp. Sveriges officiella statistik. Socialstatistik.

A report by the Swedish Social Board on labor supply, hours of work, and wages in Swedish agriculture in 1922. Also contains Part I of a report of a special investigation into wages and working conditions on the larger farms for the years 1920–21 and 1921–22.

Switzerland.—[Finanz-und Zolldepartement.] Statistisches Bureau. Statistisches Jahrbuch der Schweiz, 1922. Bern, 1923. viii, 430 pp.

The thirty-first volume of the Swiss statistical yearbook, covering the year 1922. In addition to the usual statistical data covered by preceding issues, the present issue contains a considerable number of new statistical tables. Of special interest to labor are the statistics relating to the occupational census, industrial establishments, cooperative societies (see p. 178 of this issue of the Monthly Labor Review), the labor market, prices, cost of living, wages, and social insurance.

Unofficial

AMERICAN FEDERATION OF LABOR. Report of the proceedings of the forty-third annual convention, held at Portland, Oreg., October 1 to 12, inclusive, 1923. Washington, 1923. xxiv, 388 pp.

An article on this meeting was prepared from an advance copy of the above report and published in the Monthly Labor Review for December, 1923 (pp. 173-175).

AMERICAN MANAGEMENT ASSOCIATION. Financing benefit systems. New York, 20 Vesey St., 1924. 16 pp. Convention address series, No. 8.

This pamphlet contains addresses delivered at the convention of the association in October, 1923, on employees' benefit associations, covering the experience of one which is financed jointly by employers and employees, one by employers alone, and a third by employees alone.

BLACKFORD, KATHERINE M. H., AND NEWCOMB, ARTHUR. The right job: How to choose, prepare for, and succeed in it. New York, Doubleday, Page & Co., 1924. x, 603 pp. 2 vols.

This study of character analysis is designed to assist parents, teachers, and vocational counselors to direct young people into occupations suited to their tastes and capabilities. The first volume deals with the principles and practice of character analysis, giving lists of occupations suitable for different types of individuals. The second volume discusses the necessary preparation for work in the different industries and occupations, how to get the right job, and how to succeed in the right job.

Bourdeaux, Henry. Code des accidents du travail avec annotations d'aprés la doctrine et la jurisprudence. Paris, Librairie Dalloz, 1924. 485 pp. Septième édition. Petite collection Dalloz.

This compilation covers both the legislation and jurisprudence relating to labor accidents. The text of all laws and decrees, beginning with the law of April 9, 1898, and including those enacted in 1923, is given in full.

DOWNEY, E. H. Workmen's compensation. New York, 1924. xxv, 223 pp.

A digest of this book is given on pages 156 and 157 of this issue of the

MONTHLY LABOR REVIEW.

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ions port ituINTERNATIONAL ASSOCIATION ON UNEMPLOYMENT. Control of credit as a remedy for unemployment, by J. R. Bellerby. London, P. S. King & Son (Ltd.), 1923. 120 pp.

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"All the history of social effort from 1920 to 1923 has evidenced the complete failure of conventional or 'recognized' remedies to strike at the root of the evil of unemployment." The author of the present volume, therefore, believes it necessary to consider proposals which are as yet untried and which must accordingly be classed as theoretical. An examination of the works of the most eminent writers on unemployment and the trade cycle has shown him that the field of finance has been the one in which many have hoped to find the most effective solution. In particular, the regulation of the issue of credit and currency in such a way as to stabilize industrial conditions has been very prominently advanced. Accordingly, the author has made a thorough examination of this phase of the question.

The various links in the chain of reasoning are as follows: (1) Unemployment will be reduced if industry can be stabilized at a comparatively high level of activity; (2) greater stability in industry can be secured by greater stability of the price level; (3) the movement of the price level is determined largely by the volume of money or purchasing power made available to the community; (4) control over the expansion or contraction of the purchasing power of the community rests partly with the banks, by virtue of their possessing some degree of control over the means whereby the community makes its purchases. By assisting the expansion of this purchasing power they can facilitate a boom in prices; by contracting it they can intensify depression. If they were in a position to regulate it in such a way as to minimize price fluctuations, they could thereby secure greater equilibrium in production, thus leading to a reduction of unemployment.

INTERNATIONAL FEDERATION OF TRADE UNIONS. Second statistical yearbook, 1923-24. Amsterdam, 1924. 237 pp.

This yearbook is published in English, French, and German. It gives the composition of the bureau and of the management committee of the I. F. T. U., the names and addresses of affiliated national trade-union centers, and a directory and statement of membership of organizations affiliated to these centers and of the International Trade Secretariats and their affiliated organizations. There are also tables showing the membership of the various organizations in the different countries and their financial status.

INTERNATIONAL SEAMEN'S UNION OF AMERICA. Proceedings of the twenty-seventh annual convention, held at New York City, January 14 to 21, inc., 1924. Chicago, 1924. 192 pp.

ISTITUTO ITALIANO D'IGIENE, PREVIDENZA ED ASSISTENZA SOCIALE. L'organizzazione umana del lavoro, da Giovanni Loriga. Florence, 1923. 151 pp.

This volume, published under the auspices of the Italian Institute for Hygiene, Welfare Work, and Social Aid, and written by the chief medical factory inspector of Italy, attempts to impress employers with the idea of giving greater consideration to the human factor in industrial management. By referring to American and British examples he shows that the highest physical and psychical activity of the workers can be attained by promoting general and vocational education, thus developing the talent of production; by safeguarding and promoting health, thus assuring power of production; and finally by keeping the workers contented in order that the work may be performed willingly. Since the author is a medical factory inspector, it is but natural that he lays considerable stress upon the desirability of employing industrial physicians and nurses in the welfare departments of large plants.

JOSEPH, H. W. B. The labor theory of value in Karl Marx. London, Oxford University Press, 1923. 176 pp.

The author discusses the theory advocated by Karl Marx "that the exchange value of commodities arises from and is to be measured by the labor put into them," and that in a capitalist society the laborer is defrauded of the value he creates. The writer attacks the theory on the ground that it is fundamentally false and that through its fallacy it clouds the schemes for reform of the working classes, while on the other hand it exasperates by its injustice those whom they attack.

Lewis, E. Llewelyn. The children of the unskilled—an economic and social study. London, P. S. King & Son (Ltd.), 1924. xxii, 109 pp.

An effort to determine the chances of children of unskilled workers to enter the ranks of the skilled. The discussion is based upon a careful study of the living conditions of 450 families of unskilled laborers, comprising over 2,000 children, in three different communities. A number of different factors are considered, ranging from the effects of the modern industrial system to the personality of the parents, but most of these, it is pointed out, are either derived from or closely involved with the economic and social status of the families studied. Two main lines of action are indicated.

Various factors working interdependently determine the prospects of the children in industry. The economic factor is of greatest importance in this respect. It mainly determines the standard of living, the health and strength, the outlook of the unskilled and their social influence. The first necessity for improving the prospects of the children is, therefore, a change in their economic condition.

At the same time, however, educational reform must also take place, and there must be a cooperation of all classes in their welfare, so that their social status may be increased.

MILLER, EARL J. Workmen's representation in industrial government. [Urbana, University of Illinois Press, 1924?]. 183 pp. Reprinted from the University of Illinois Studies in the Social Sciences, Vol. X, Nos. 3 and 4, pp. 405-588.

The development of shop-committee plans in the United States is presented in this study from the standpoint of their origin, form and methods, the reasons for their introduction, and the results obtained. The relation of these plans to the trade-union movement is discussed and the arguments of both sides are given. In this connection the council movement in foreign countries is briefly described as are also the joint councils which have developed in connection with the unions in certain industries.

National Housing Association. Proceedings of the ninth national conference on housing, Philadelphia, December 5, 6, and 7, 1923. Housing problems in America. New York, 105 East 22d St. [1924]. xi, 408 pp.

Some account of the proceedings of this conference was given in the Monthly Labor Review for February, 1924 (pp. 172-175).

National Industrial Conference Board. Wages, hours, and employment in American manufacturing industries, July, 1914—January, 1924. New York, 10 East 39th St., 1924. vii, 104 pp. Research report No. 69.

This report shows the trends in wages from June, 1920, through January, 1924, compared with the pre-war figures for July, 1914. There are 23 major industries included in the report, covering 1,678 manufacturing plants. The largest number of wage earners employed in any one month for the period of the report was 697,965 in June, 1920, or approximately 16 per cent of the total number of wage earners in these industries. Tables and charts show the fluctuations in "money" wages and "real" earnings, the latter being based on the cost of living. These data are shown for the different industries separately and there are also a number of summary tables and charts.

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able the NATIONAL SAFETY COUNCIL. The removal of floating dust in grain elevators. Report of an investigation by Underwriters' Laboratories for the committee on dust control in grain elevators. Chicago, 168 North Michigan Avenue, 1924. 32 pp.

The control of the escape of grain dust in terminal elevators for the purpose of lessening the explosion hazard was the subject of this practical test of different systems of dust removal. Heretofore the great difficulty in the way of general installation of exhaust systems in grain elevators has been the determination of a method of removing the floating dust without at the same time "picking up an appreciable percentage of solid grain." The kind of installation described in this report is considered desirable from every standpoint and has been accepted by the State authorities representing the interests of the grain producers and shippers and by those interested in safety, in Minnesota and Wisconsin.

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Pennsylvania Compensation Rating and Inspection Bureau. Coal-mine section. Statistical analysis of coal-mine accidents in Pennsylvania, 1916 to 1922, inclusive. Harrisburg [19237]. 140 pp.

Data from this report are published on pages 153 to 155 of this issue of the Monthly Labor Review.

Stone, Gilbert. The rent restrictions acts, 1920 and 1923, with rules thereunder, together with cases in the English, Scotch, and Irish courts. London, Ernest Benn (Ltd.), 1923. 234 pp.

An attempt to bring together the rules and principles underlying decisions given in rent cases, and thereby to afford a clue through the mazes of the acts, amendments, new acts, and supplementary amendments which have brought the rent laws to a state of almost hopeless complexity.

Tugwell, Rexford Guy, Editor. The trend of economics. New York, Alfred A. Knopf, 1924. xi, 556 pp.

A collection of articles by economists, most of them belonging to the younger generation, which embody the views of these writers toward the problems of economics. In general the purpose of the book is to show the views of each as to what the trend of economic science is, what it seems to the writer that it ought to be, and the contribution his own theory makes. The appendixes contain a guide to the history and previous work of the contributors and a bibliography.

VERBAND SCHWEIZERISCHER KONSUMVEREINE (V. S. K.), Basel. Rapports et comptes concernant l'activité des organes de l'Union en 1923. Basel, 1924. 101 pp.

Certain statistics taken from this report are given on pages 178 and 179 of this issue of the Monthly Labor Review.

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SERIES OF BULLETINS PUBLISHED BY THE BUREAU OF LABOR STATISTICS

The publication of the annual and special reports and of the bimonthly bulletin was discontinued in July, 1912, and since that time a bulletin has been published at irregular intervals. Each number contains matter devoted to one of a series of general subjects. These bulletins are numbered consecutively, beginning with No. 101, and up to No. 236 they also carry consecutive numbers under each series. Beginning with No. 237 the serial numbering has been discontinued. A list of the series is given below. Under each is grouped all the bulletins which contain material relating to the subject matter of that series. A list of the reports and bulletins of the Bureau issued prior to July 1, 1912, will be furnished on application. The bulletins marked thus * are out of print.]

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- *Bul. 114. Wholesale prices, 1890 to 1912.
- Bul. 149. Wholesale prices, 1890 to 1913.
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- *Bul. 181. Wholesale prices, 1890 to 1914,
- *Bul. 200. Wholesale prices, 1890 to 1915.
- *Bul. 226. Wholesale prices, 1890 to 1916.
- Bul. 269. Wholesale prices, 1890 to 1919.
- Bul. 284. Index numbers of wholesale prices in the United States and foreign countries. [Revision of Bulletin No. 173.]
- Bul. 296. Wholesale prices, 1890 to 1920.
- Bul. 320. Wholesale prices, 1890 to 1921.
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Retail Prices and Cost of Living.

- *Bul. 105. Retail prices, 1890 to 1911: Part I.
 - Retail prices, 1890 to 1911: Part II-General tables.
- *Bul. 106. Retail prices, 1890 to June, 1912: Part I.
- Retail prices, 1890 to June, 1912: Part II-General tables
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- *Bul. 138. Retail prices, 1890 to October, 1913.
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- Bul. 357. Cost of living in the United States. [In press.]
- Bul. 366. Retail prices, 1913 to December, 1923. [In press.]

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- Bul. 116. Hours, earnings, and duration of employment of wage-earning women in selected industries in the District of Columbia.
- *Bul. 118. Ten-hour maximum working-day for women and young persons.
- Bul. 119. Working hours of women in the pea canneries of Wisconsin.
- *Bul. 128. Wages and hours of labor in the cotton, woolen, and silk industries, 1890 to 1912.
- *Bul. 129. Wages and hours of labor in the lumber, millwork, and furniture industries, 1890 to 1912.
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- *Bul. 135. Wages and hours of labor in the cigar and clothing industries, 1911 and 1912.

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- Bul. 137. Wages and hours of labor in the building and repairing of steam railroad cars, 1890 to 1912.
- Bul. 143. Union scale of wages and hours of labor, May 15, 1913.
- Bul. 146. Wages and regularity of employment and standardization of piece rates in the dress and waist industry of New York City.
- *Bul. 147. Wages and regularity of employment in the cloak, suit, and skirt industry.
- *Bul. 150. Wages and hours of labor in the cotton, woolen, and silk industries, 1907 to 1913.
- *Bul. 151. Wages and hours of labor in the iron and steel industry in the United States, 1907 to 1912.
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- Bul. 168. Wages and hours of labor in the iron and steel industry, 1907 to 1913.
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- Bul. 202. Proceedings of the conference of Employment Managers' Association of Boston, Mass., held May 10, 1916.

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Bul. 241. Public employment offices in the United States.

Bul. 247. Proceedings of Employment Managers' Conference, Rochester, N. Y., May 9-11, 1918.

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- Bul. 272. Workmen's compensation legislation of the United States and Canada, 1919.
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- Bul. 361. Labor relations in the Fairmont (W. Va.) bituminous coal field. [In press.]
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Coal and water gas, paint and varnish, paper, printing trades, and rubber goods.

Electrical manufacturing, distribution, and maintenance.

Glass

Hotels and restaurants.

Logging camps and sawmills.

Medicinal manufacturing.

Metal working, building and general construction, railroad transportation, and shipbuilding.

Mines and mining.

Office employees.

Slaughtering and meat packing.

Street railways.

*Textiles and clothing.

*Water transportation

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